

EXHIBIT A

Curriculum Vitae

Michael Adrian Brook

Address

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Business: Department of Chemistry
McMaster University, ABB 459
1280 Main St. W.
Hamilton, Ontario
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Personal Data

Date of Birth: November 2, 1955
Country of Birth: Canada
Citizenship: Canadian
Marital Status: Married, 3 children.

Education

ETH-Zürich (Swiss Federal Institute of Technology) 1984-85
Postdoctoral Fellowship, Supervisor: Prof. Dr. D. Seebach

McGill University, Ph.D. (Dean's Honour List) 1983
Supervisor: Prof. T.H. Chan (conferred 1984)
Thesis: *The Trimethylsilyl Group in Organic Synthesis*

University of Toronto, Honours B.Sc. 1978
Supervisor: Prof. M. Thompson, 4th year project
Thesis: *The Oxidation Products of 8-hydroxyquinoline with Ceric Ammonium Nitrate*

University of Sussex, UK, Chemistry, first year 1974

Current Status at McMaster

Professor of Chemistry, tenured.

Associate Member, Department of Pathology and Molecular Medicine (1993-2002).

Associate Member, Chemical Engineering (1999-2004).

Professional Organizations

Member, Chemical Institute of Canada

Member, American Chemical Society

Member, McMaster Institute for Polymer Production Technology

Member, Brockhouse Institute for Materials Research (McMaster)

Employment History

McMaster University, Professor (Promoted July 1997)	1997-
present	
McMaster University, Associate Professor (Promoted July 1991)	1991-97
McMaster University, Assistant Professor (Tenured July 1990)	1985-91
Prof. W.H. Rapson, University of Toronto	1979
<i>Determination of potential mutagenic products of the aqueous chlorination of wood pulp.</i>	
Dr. O. Merecz, Ontario Ministry of the Environment	1978,
1977	
<i>Analysis of polycyclic aromatic hydrocarbons by capillary GC and HPLC.</i>	
Mr. T. Segeren, Chevron Asphalt, Calgary	1976
<i>Analysis of aqueous asphalt emulsions.</i>	

Consultancies

Silicone Injection Molding Company, name withheld	2006
Biomaterials Company, name withheld	2005
Jenner and Block, Chicago	2005
Innolight, St. Paul, MN	2004-
2005	
Inamed CA	2003-
2005	
Digital Persona	2004
Vision Company, name withheld	2003-
2004	
MDS-Sciex, Toronto	2003-
2004	
Dow Corning Corporation, Midland MI	2003-
2004	
Federal Government of Canada (Justice, Health)	2003,
2004	
Kent and McBride, Philadelphia	2003
GenoRx, CA	2003
Strategic Analysis International, Philadelphia	2003

Surtec, Valparaiso, ILL	2003
Eisenmann, Crystal Lake ILL	2002
Shook, Hardy and Bacon, Kansas City	2001-
2002	
Teltech (now Intota/Sopheon)	1993-
Stroock and Stroock and Lavan, New York	2001
Genencor, Palo Alto	2001
Sasol, Austin TX	2001
Arkmount Systems, Toronto	2000
Xanthon, NC	2000
Gillette, Boston	2000
Shapiro, St. Paul MN	2000
Hatch and Associates, Shanghai	2000
General Electric, Waterford NY	2000
CalEnergy, Calipatria CA	2000
Ballard Power Inc., Vancouver	2000
Dow Corning Corporation, Midland MI	1990-
2000	
Jones Rogers, Toronto	1997-
2000	
Kent and McBride, Philadelphia	1999-
2001, 2003	
Trojan Technologies, London ON	1998-
2000	
CK Witco, Sistersville WV	1999
FEI Technologies, Princeton NJ	1999
Unilever, Port Sunlight UK	1997-98
Tel-Tek/Norsk Hydro, Porsgrunn Norway	1998
Strook and Strook and Lavan, NYC	1997
Eastman Chemical, Kingsport, Tennessee	1997
Albemarle Corp., Baton Rouge Louisiana	1996
Delphax, Mississauga ON	1996
Magnifoam, Barrie ON	1996-97
Lotek, Markham, ON	1995
Price Waterhouse, (for AMT), Toronto	1995
IVACS	1995
Itron, Waseca MN	1994
Trace Sciences	1993
Abitibi Price, Canada	1991-92
S&S Productions	1990
C.I.L. (now I.C.I. Canada)	1988
Galen Pharma (now Biovail, Trimel Lifesciences)	1988-90

Scholarly and Professional Activities

ACS Award Committee, Member (specific award is confidential)	2005-
2010	
<i>Silicon Chemistry</i> (a journal), Regional Editor, The Americas,	2000-
Innovalight, St. Paul, MN, Scientific Advisory Board, Member	2004-
5th Polymerization in Dispersed Media, Lyon France (2004)	2003-4
Member, International Organizing Committee	
Scientific Advisory Board, Ian Wark Research Institute,	
Member, University of South Australia	2002-4
The 3rd International Workshop on Organosilicon Polymers (2003)	2002-3
Member, Organizing Committee, June 23-25, 2003; Rensselaer Polytechnic Institute, Troy, NY	
Formulation Days: Silicones and Fluorocarbons, Lyon France, Dec. 9, 10, 2002	
2002	
(Journées formulation silicones et fluorés), Member, Organizing Committee	
Perspectives on Silicon, Ian Wark Research Institute, Adelaide, July 15-19, 2002.	
Member, Advisory Board, University of South Australia	2002
Visiting Professor, Ian Wark Research Institute, University of South Australia	2002
Visiting Professor, Unité Mixte CNRS BioMérieux Lyon, France	2000
Visiting Scientist, Trojan Technologies, London Ontario	1999
<i>Can. J. Chem.</i> Special Issue in honour of Adrian Brook, (pub. Nov. 2000),	
Guest co-editor	1998-
2000	
XXX Organosilicon Symposium, Co-Chair	1997
Visiting Professor, Université de Bordeaux, Bordeaux, France	1996
Visiting Professor, Université Paul Sabatier, Toulouse, France	1996
Visiting Professor, University of Amsterdam	1992-93
74 th CIC Chemistry Conference	
Program Co-Chair	1990-91
Abstract Editor	1990-91
Symposium Organizer	1990-91
Conference Chairman, Southwestern Ontario	
Undergraduate Chemistry Conference	1987
Journal Referee (in order of frequency)	
1) Silicon Chemistry	
2) Journal of the American Chemical Society	
3) Langmuir	
4) Canadian Journal of Chemistry	
5) Chemistry of Materials	
6) Biomaterials	
7) Organometallics	
8) Organic Letters	
9) Applied Surface Science	
10) Journal of Polymer Science Part A: Polymer Chemistry	
11) Applied Organometallic Chemistry	

- 12) J. Chem. Soc., Dalton Transactions
- 13) AIChE Journal
- 14) Science
- 15) Journal of Materials Chemistry
- 16) Artificial Organs
- 17) Journal of Inorganic Biochemistry
- 18) Australian Journal of Chemistry
- 19) Tetrahedron Letters
- 20) Journal of Organic Chemistry
- 21) Journal of Organometallic Chemistry
- 22) Synlett
- 23) Inorganica Chimica Acta
- 24) Chemische Berichte
- 25) Journal of Physical Organic Chemistry
- 26) Tetrahedron Computer Methodology

External Grant Reviews (in order of frequency)

- 1) NSERC Research Grants
- 2) NSERC Equipment Grants
- 3) Canadian Foundation for Innovation Review Chemistry Panel CFI Panel (Nov. 2001)
- 4) Canadian Institutes for Health Research grant review
- 5) NSERC Industrial Partnerships Program (CRD/IOR)
- 6) NSERC Strategic Grant
- 7) National Science Foundation (USA)
- 8) American Chemical Society, Petroleum Research Fund (PRF)
- 9) Killam Fellowship
- 10) US-Israel Binational Science Foundation

Government Panels

Expert Advisory Panel on Breast Implants, Therapeutic Products Directorate, Medical Devices Bureau, Health Canada, member, 2002

Scientific Advisory Panel on Breast Implants, Therapeutic Products Directorate, Medical Devices Bureau, Health Canada, member, March 2005

Expert Advisory Panel on Breast Implants, Therapeutic Products Directorate, Medical Devices Bureau, Health Canada, member, public panel, Sept. 2005

Areas of Interest

Organosilicon Chemistry

Silicon-biopolymer copolymers, Organofunctional silicones, Silica surface modification, Silicone Polymers,

Protein entrapped in silica and silicones (immobilized enzymes), Silane coupling agents,

Reactive Silicon Species

Other Interests

Ocular Materials, Oral Vaccines, Functional Colloids, Synthesis of Novel Polymers,
Synthetic Organic Chemistry

Honours

	Killam Fellowship (Canada Council of the Arts)	2003-
2004	President's Award for Instruction (McMaster)	2003
	McMaster Student's Union Teaching Award (Faculty of Science)	2002,
1997	Invited Professor, Ian Wark Research Institute, University of South Australia	2002
	Gold Key Honour Award, McMaster University	2000
	Invited Professor, Unité Mixte CNRS BioMérieux Lyon	2000
	Nomination for McMaster Students Association Teaching Award	2001,
1999		1998, 96,
94	Synergy Award, Conference Board of Canada, NSERC with Mark R. McDermott and Connaught Laboratories, one of 4 annual Canada-wide awards (Award given for Industry-University collaboration)	1996
	Invited Professor, Université de Bordeaux, Bordeaux, France	1996
	Invited Professor, Université Paul Sabatier, Toulouse, France	1996
	Invited Professor, Universiteit van Amsterdam, Netherlands	1992-93
	Dutch National Science Foundation Foreign Researchers Award (NWO Bezoekersbeurs)	1992-93
	IUPAC Travel Award	1991
	Ichikizaki Travel Award for Young Chemists	1988,
1990	NSERC Canada University Research Fellowship	1985-95
	NSERC Canada Postdoctoral Fellowship	1984-85
	NSERC Canada Postgraduate Scholarship	1979-83
	T. Sterry Hunt Award (McGill)	1979-80
	Society of Chemistry and Industry Gold Key	1978
	Gollop Award in Chemistry (Toronto)	1978
	S.H. Jane Silver Medal (Toronto)	1977
	ACS Undergraduate Award in Analytical Chemistry	1977
	Ontario Scholar	1974

CO-WORKERS

M.Sc. students

STUDENT	YEAR(S)	TOPIC	CURRENT
Lihua Liu	2004	Biopolymer modified silicones	
Lucy Ye (with Bob Pelton, Chemical Engineering)	2004	Bicompatible TiO ₂	

Hazem Amarne	2004	Boronates as structuring agents	
Weian Zhao	2004	Functional Colloids	
Dave Thompson	2003-05	Tethered nucleotides	
Sanela Martic	2003-05	<i>An Investigative Study of Silicon-Based</i>	M.Sc.,
Ph.D. Queen's			
		<i>Materials as Alternative Matrices for Maldi-Tof Applications</i>	
Kui Guo	2001-04	Protein in Sol Gel Silica	
Forrest (Li) Gan	2001-03	Silicone peptides	Ph.D.,
McMaster			
Cindy Liu	2001-03	Tris-Modified Silicone Surfactants and Their	
Scientist		Interactions with Proteins	Vancouver,
Paul Zelisko	1999-01	Silicone-protein copolymers	Ph.D.,
McMaster			
Amro Ragheb	1999-01	Anti-fouling coatings	Ph.D.,
McMaster			
David Valentini	1994-96		
Scientist		Scientist, Glaxo	
		<i>The coupling of synthetic and biological polymers: silicone - starch composites</i>	
David Bayles	1994-96	<i>Towards an α-silyl cation</i>	Ph.D.,
McMaster			
Grant Crowe	1992-94	<i>The β-effect of extracoordinate silanes</i>	Scientist,
Apotex			
Tom Stefanac	1992-94		Scientist,
Allelix			
		<i>Silane based radical polymerization: functionalized homopolymers and copolymers</i>	
Mike Roth	1992-94		Scientist,
PMC Film			
		<i>Controlled formation of new Si-based polymeric systems</i>	Tottenham,
Ont.			
Graham McGibbon	1989-91		Scientist,
Boeringer-			
		<i>Gas phase measurements of the β-effect for vinyl cations</i>	Ingelheim,
Montreal			
Weifeng Yu	1988-91		Scientist,
EPA			
		<i>The roles of ligands on silicon</i>	
Oakville			
Andrea Osterroth	1988-90	<i>Poly(methyl methacrylate) sterically stabilized with</i>	
silicones		<i>(co-supervised with R.H. Pelton, Chemical Engineering)</i>	

Thomas Sebastian Zenon	1987-89	<i>Polytrichlorosilylstyrenes</i>	Scientist, Environ.,
Burl. ON Mahmud Hadi	1986-88	The β -effect	MBA
Ph.D. students			
STUDENT STATUS	YEAR(S)	TOPIC	CURRENT
Dave Thompson	2005-	Silicone-modified saccharides	
Forrest (Li) Gan	2003-	Stereoselective reduction	
Elodie Pacard	2002-05	Colloidal Silica Aggregates	
Amro Ragheb Poly(Ethylene Oxide)	Joint with Christian Pichot, ENS-Lyon France		
Paul Zelisko	2001-05	Silicone-protein copolymers	
Masaaki Amako	2001-04	Organometallics in silicones	
Mustafa Mohamed	1996-01	<i>Surface modification by silane photolysis</i>	
Sonya Balduzzi	1995-01	<i>Functional silane and cobalt protecting groups</i>	
Ahmed Alzamly	1999-00	<i>Silicone-protein copolymers</i>	withdrawn
Frank Laronde	1995-00	<i>C₂-symmetric Lewis acid catalysts: The role of imidazole in the stereoselective hydrosilylation of carbonyl compounds.</i>	Scientist MDS Proteomics
Rodica Stan	1994-99	<i>Synthesis of novel organofunctional silicones and silanes for interface control</i>	Scientist, GE, WV
Vasiliki Bartzoka Taro Chem..	1994-99	<i>Silicone-protein interactions</i>	Scientist,
Mark Stradiotto	1995-99	<i>The dynamics and reactivity of η^1-indenyl complexes</i> (co-supervised with M. J. McGlinchey)	Asst.
Prof. Dalhousie Paul Charpentier	1993-97	Supported Metallocene Polymerization	Catalysts PDF Duke (co-supervised with A. Hamielec, Chemical
Engineering)			
Ralph Ruffolo	1992-97	<i>Silanes and allylsilanes as possible precursors for transition metal-stabilized silylum ions</i>	(co-supervised with M. J. McGlinchey) M. Environment ON
Howard Ketelson	1992-96	<i>The colloidal stability and surface chemistry of Stöber silica</i>	1992-96 (co-supervised with R.H. Pelton, Chemical Engineering) Scientist, Alcon

Courtney Henry	1990-94	Electrophilic additions, vinylsilanes	Prof.
Sheridan College			
Carol Dallaire	1988-92	<i>The β-effect for vinyl cations</i>	Scientist,
MDS Laval			
Melvin Farquharson	1985-86	Lewis Acids	Deceased

P.D.F.s

STUDENT STATUS	YEAR(S)	TOPIC	CURRENT
Rebecca Voß	2005		
Ferdinand Gonzaga	2003	Silicone surfactants	
Yan Gao	2003	Proteins in silica	
Dan Chen	2000-	Plasticized sol-gels	
Amro Ragheb	2005-	Fluorinated silicones	
Jian (Jack) Guo	2004-05		Biocompatible silicone
surfaces			
Zheng Zhang	2001-04		Proteins in silica
	PDF, U. Washington		
HongJian Tian	2001-04		Contact lens cleaning
	PDF Waterloo		
Hong Chen	2001-04		Protein compatible
surfaces		Assistant Prof.,	
			Wuhan University of
Technology			
Shouhai Gao	2001-01		Contact lens cleaning
Alexander Tseitlin	1997-98	Wood-plastic composites	Research
Chemist,			Siltech,
Toronto			
Gilles Sèbe	1996-97	Wood-polyolefin Composites	Assoc. Prof.,
Bordeaux			
Gang Hu	1995-97	Silicone Hydrophobes on Hydrophilic Polymers	
		Superior Coatings	Ltd.
Winnipeg.			
Jianxiong Jiang	1992-96	Silicone Rubbers	Scientist,
Chengdu			
			Silicone
Christine Gottardo	1995-96	Lab Manager and Paper silanization	Institute
			Asst. Prof.,
		Lakehead Univ.	

Christophe Le Roux Toulouse	1993-94 Radical Reactions of Hydrovinylsilanes,	CNRS,
C.-K. Yeom Membrane	1992-94 Pervaporation Membranes	Korean
Hari Gupta McMaster	1992-93 Silicone Membranes	Company PDF,
Pankaj Modi McMaster	1991-92 Oligosilylstyrenes, composite membranes	PDF
Wei Li China	1991-92 Membranes from silicones	Scientist,
T. Mancilla-Percino CINVESTAS	1990-91 β -effect; Friedel-Crafts with ketones	Prof.
Stefan Müller BASF	1988-89 The β -effect; Friedel-Crafts with ketones	Mexico City Scientist, Germany.

Technicians

STUDENT	YEAR(S)	TOPIC	CURRENT
Renita D'Souza	2004		
Kui Guo	2001	Silica Sol Gels	
Cindy Liu	2000	Chelating silicones	
Tom Stefanac student	1994	Recycling silicone	see M.Sc.
Chunfeng Guo	1991-3	Coupling reagents, glass coatings Parkhurst Knitwear	

Summer Students/In Course Students

STUDENT	YEAR(S)	TOPIC	CURRENT
Aid Atlic	2005	Silicones by enzymes	
Amélie Burleraux	2005	Non-bleeding silicones	
Jill Ranger student	2003-5	Proteins and silicones	4 th year
N. Oakley	2004	Sterically bulky silicones	
S. Krakar	2004	Non-leaching silicone gels	
L. Tran	2004	Enantioselective reduction	
Meghan Marshall	2003-4	Western Blots of Proteins on Silicone (with H. Sheardown)	2003
Lisa Wilkinson Queen's	2003-4	Silica aggregation	4th year student

Lee Freiburger student	2003-4	Metalomesogen synthesis	3rd	year
Renita D'Souza	2002-4	Silica formulations (done in school year AND summer)		
Mike Hrynyk summer)	2002-4	Proteins in silicone rubber (done in school year AND		
Joanne Poloczek student	2003	Borosilylation (with Steve Westcott, Mt. Allison)	3 rd	year
Stefanie Mortimer student	2003	Proteins on modified silica surfaces	4 th	year
Aoife O'Carroll student	2003		3 rd	year
Jonathan Schinkel Allison	2003	Metalomesogen synthesis	4 th	year
Susan Jo student	2003	Drug delivery from silicone elastomers	2 nd	year
Cynthia Kwong summer)	2002-3	Cleaning contact lenses (done in school year AND		
Ken Mak	2002-3	New silicone emulsions (done in school year)		
Allison Chapman	2002	Contact lens cleaning		
Stefanie Mortimer	2002	Proteins on modified silica surfaces		
Michele Riordon	2002	Silicone-protein conjugates		
Meaghan Walsh	2002	Sol-gel protein in silica		
Jannine Crowley	2001	Silicone Emulsions		
Meaghan Walsh	2001	Enzyme Emulsions		
Laveena Munshi School	2001	Chelating Silicones		Medical
Jannine Crowley	2000	Anti-fouling Coatings		
Ines Alonso Bilbao	2000	Silicones and Steric Stabilization		Ph.D.
Andre Lapierre Pittsburgh	2000	Enantioselective Reductions		Ph.D.
Krista Kerr	1999	Enantioselective ketone reduction		
Dino Alberico Guelph	1999	Thermoplastic elastomeric silicones		Ph.D.
Bryan Davies McMaster	1998	Chelating Silicones	3 nd	Year
Friedrika Becker Duisburg	1997	Ethylene Oxide Sterilization of Silicones	Ph.D.	
Marko Baller	1997	Decouplable Coupling Agents.	Ph.D.	
Bryan Davies McMaster	1997	Silicone Wood Composites	2 nd	Year
Stacey Bridges Student	1996	Wood-PE Composites		Grad.
Denny Lin Toronto	1995	Chiral tartrate silanes		M.Sc.

Herman Yang Computers	1994-96	DMSO for D ₃ production	Quantum
Hanan Atala	1994-95	Amino acid derived surfactants	
Helen B. Penny	1992	Hydrosilanes	
Ralph Ruffolo Toronto	1992	Tartrate modified silicones	PDF
M. Tomaschewski BioChem.	1987	The β -effect; Acylation	Scientist, Thera.,
Laval			
Patricia Falletta CCIW	1986-87	Polysilylstyrenes	Scientist,
Jennifer Townsend Ont. Min.	1986	Polysilylstyrenes	Scientist, of
Environment			
Axel Neuy Universität	1988-89	β -effect	Ph.D. Duisburg,
Germany			
Peter Hülser GmbH,	1985-86	The Silicon α - and β -Effects	SurTec Germany.

Fourth Year Project Students

STUDENT STATUS	YEAR(S)	TOPIC	CURRENT
Stephanie Krakar	2004	Oligocarboxylate silicones	
Jill Ranger	2004	Surface bound nucleosides	
Stefanie Mortimer	2003	Heparin delivery	M.Sc., N.
Carolina			
Lauren Scott	2003	Antithrombogenic surfaces	M.Sc., UBC
Andy Cleaver	2000	Enantioselective Reductions	
Ines Alonso	1999	Silicones and Steric Stabilization	
Andre Lapierre	1999	Enantioselective Reductions	
Dwayne Stresman	1998	Siloxycarbenes (with J. Warkentin)	
Dino Alberico	1998	Cp-silicones, thermal crosslinking	
Gladys Chan	1998	Protein-Silicone Latexes	Medical
school			
Joerg Urschey	1997	Fluorescent Silicones	
Andrea Straatmann	1997	Water borne coupling agents	
Armin Schneider	1996	Hydrosilation catalysts	
		Diplomarbeit, Duisburg	
Jeff Kent	1996	Enzymes on Silicone Surfaces	

Alex Andronov	1995	Amphiphilic Polymers	M.Sc.
Berkely			
Hanan Atala	1995	Diels-Alder Based Coupling Agents	
Thomas Kuhnen	1995	Inorganometallic Polymers	Ph.D.
Duisburg			
Andrew Stadler	1994	Organomodified silicone colloids	
Jay Atanasoff	1994	Pt hydrosilation	
Chris Roos	1993	Silanone from thermal decomposition	Ph.D.
Frankfurt			
Dagmar Ulbrich	1993	Pausen Khand Reactions Using Disilyl-dicobalt	Ph.D.
Frankfurt,			
Jason Bernais	1993	Alkyne complexes	Germany
Mike Roth	1991	Silicone-cellulose copolymers	MBA
Bjorn Ramacher	1991	see M.Sc. student	
Duisburg		Tetrakis(trimethylsilylalkynylsilanes	Ph.D.
Rick Barker	1990	Silicone stabilized colloids	Scientist,
Pioneer			Balloon,
Stoney Creek			
Ralf Jueschke	1989	The β -effect; Diastereoselectivity	Ph.D.
Duisburg			
Bernhard Hladik	1989	Silicone radical reactions	Ph.D.
Duisburg			
Stefan Wenzel	1990	Silylstyrene condensations	Ph.D.
Duisburg			
Daniel Chau	1989	Slow release drugs	Newalta
Corp.			
Sean Guenette	1988-89	Slow release drugs	Ph.D.
Ottawa			
Axel Neuy	1988-89	The β -effect	Ph.D.
Duisburg			
Christina Kremers	1987-88	Silane polymers and chiral silaheterocycles	Ph.D.
Duisburg			
Elizabeth Jefferson	1987-88	The β -effect with Styrylsilanes	PDF,
Toronto			
George Elia	1986-87	Mechanism of Mukaiyama Reaction	
Patricia Falletta	1986-87	Polysilylstyrenes,	Scientist,
CCIW			
Peter Hülser	1985-86	The Silicon α - and β -Effect	SurTec
GmbH,			Germany.

Research Funding

Applications (Type O= Operating, E = Equipment, I = Infrastructure, MI = Major Installation, C=Contract)

<u>Applicants</u>	<u>Title of Project, Grantor</u>	<u>Type</u>	<u>Amount</u>
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Year

	Biomimetic Intraocular Lens Surfaces for Minimization of Posterior Capsule Opacification, NSERC		CHRP
<i>Brook, M. A.</i> 2006	HPFC Chromatograph, NSERC	E	29,604
<i>Cappretta, A.</i>			
<i>Brook, M. A.</i> 2006	GPC Chromatograph, NSERC	E	86,610
<i>Sheardown, H.D.</i> PDMS Based Keratoprosthesis In vitro and in vivo 2006-2010		O	142,500
<i>Brook, M.A., CIHR</i> (Brook portion, \$35K)			
<i>West-Mays, J.</i>			
<i>Brook, M. A.</i> 2006-11	Silicone Biocompatibility from Interfacial Control NSERC	O	115500

Research Funding

Funding Held (Type O= Operating, E = Equipment, MI = Major Installation)

<i>Brook, M.A.</i> 2006	Biocompatible, Thixotropic amphiphilic silicones as	Travel	10,000
<i>Ganachaud, F.</i>	retinal tamponades, Ambassade de France (exchange Montpellier)		
<i>Pelton, R.H.</i> 2006-10	Sentinel: The Canadian Research Network on	O	10,000,000
<i>Brook, M. A.</i> 18 others	Bioactive Paper, NSERC, Brook portion 5%		
<i>Brook, M. A.</i> 2005	Intraocular lenses, AMO	Grant	157500
<i>Sheardown, H.D.</i>			
<i>Sheardown, H.D.</i> PDMS – Hydrogel Interpenetrating Networks as 2004-05		I2I	125000
<i>Brook, M. A.</i>	Ophthalmic Biomaterials		

<i>Brennan, J.D.</i> 2004	Mercury Porosimeter for Characterization of		RT1(E) 88,419
<i>Brook, M. A.</i>	Macroporous Silicas, NSERC		
<i>Brook, M. A.</i> 2004	Silicone-Protein complexes: Using molecular affinity to clean surfaces, Alcon Lab. (US 100000)	O	130000
<i>Brook, M. A.</i> 2004	Anti-fouling surfaces to reduce clotting (provided by J. Weitz, Hamilton Health Sciences	O	20000
<i>Brook, M. A.</i> 2003	Dow Corning Toray Silicones Silicone Liquid Crystals (M. Amako)	O	89000
<i>Brash, J.</i> 2003 +3 others	Gamma Counter, NSERC	E	39405
<i>Brennan, J.D.</i> 2003-6	Development of Mesoporous Monolithic Columns for	CRD	1.0×10^6
<i>Brook, M. A.</i> Pinto, D. Volmer, D. Covey, T.	High Throughput Proteomics Applications NRC.NSERC, with MDS-Sciex	BROOK PORTION (37%)	
<i>Sheardown, H.</i> 2003,4	PDMS Based Artificial Corneas – Cornea Epithelial	O	110000
<i>Griffith, M.</i> 2005	and Stromal Cell Interactions and Device Design		120000
<i>Brook, M. A.</i>	NSERC CHRP (40%)		
<i>Sheardown, H.</i> 2003-2006	Silicone Lenses for the Mitigation of Scarring	O	70000
<i>Brook, M. A.</i> Wong, D.	Following Corrective Laser Eye Surgery Materials & Manufacturing Ontario (Brook portion 40%)		
<i>Brook, M. A.</i> 2001-2005 Control, NSERC	Silicon at the Interface: Synthesis Directed to Interfacial	O	74500
<i>Brook, M. A.</i> 2003	Silicone-Protein complexes: Using molecular affinity to clean surfaces, Alcon Lab. (US 100000)	O	155000

Brook, M. A. 2002	Silicone-Protein complexes: Using molecular affinity to clean surfaces, Alcon Lab. (\$US 80000)	O	120000
Brook, M. A. 2001-2002	Dow Corning Toray Silicones PhD Research Student Funding (M. Amako)	O	25000
Brook, M. A. 2001	International Collaborative Travel Grant, CIHR (+ living expenses in France up to 2 months paid by CNRS)		1600
Brook, M. A. 2001	Silicone-Protein complexes: Using molecular affinity to clean surfaces, Alcon Lab.	O	90000
Brook, M. A. 2001 McDermott, M. 2002 2003	Protein-Containing Emulsions in Mucosal Immunology NSERC CHRP.	O	84750 89750 84750
Organ, M. 2001-3	Accelerating Drug Discovery Using Frontal Affinity	CRD	1.6x106
Brook, M. A. Brennan, J.D. Schriemer, D. 2001-3	Chromatography/Mass Spectrometry, NSERC, with INH with MDS-Sciex BROOK PORTION		100000
McCarry, B. E. 2000 Brook, M. A. (16 others)	Biomolecular Interactions, Ontario Innovation Trust	MI	5,190,000
McCarry, B. E. 2000 Brook, M. A. (16 others)	Biomolecular Interactions, CFI	MI	5,190,000
Harrison, P. 2000 Warkentin, J. McGlinchey, M. Brook, M. A. Berti, P.	FT-IR System for <i>in-situ</i> Reaction Monitoring, NSERC	E	106145

Valliant, J.F.

Brook, M.A. 2000	300 MHz CP-MAS NMR Spectrometer, NSERC	MI	336800
Harrison, P.H.			
Bain, A., Leigh, W.J.			
McGlinchey, M.J.			
Epand, R.; Valliant, J.F.			
Brook, M. A. 2000-2001	Reduced Fouling Quartz Surfaces for UV Sterilization of Water, Material & Manufacturing Ontario	O	40000
Pelton, R.H. 1999-2003	Calcium Carbonate Adhesion to Paper, Mintech Canada,	O	35840
Brook, M.A.	Grant-in-Aid (13 hours/month)		
Brook, M. A. 1999-2000	Reduced Fouling Quartz Surfaces for UV Sterilization of Water, Trojan Technologies Inc.	O	10000
Brook, M. A. 1999-2000	Reduced Fouling Quartz Surfaces for UV Sterilization of Water, Material & Manufacturing Ontario	O	70000
Pelton, R. H. 1999-2002	Calcium carbonate adhesion to paper, Mintech Canada	O	30,000
Brook, M. A.			
Brook, M. A. 1999	Silicone Spreading, Unilever Research	C	6500
Terlouw, J. K.. 1998	MS Infrastructure	I	498000
Brook, M. A.			
Bain, A.			
Stöver, H.			
Brook, M. A. 1998	Silicone Membranes, Tel-Tek Norsk Hydro	C	28000
Brook, M. A. 1998	Modifying Quartz Surfaces, Trojan Technologies	C	13462

<i>Brook, M. A.</i> 1998-2000	Dual Functionality Coupling Agents for the Fabrication of Wood-Plastic Composites, Material & Manufacturing Ontario	O	80000
<i>Brook, M.A.</i> 1997	Silicone sterilization with EO OCMR and Walsh Medical Devices	O	22000
<i>Brook, M.A.</i> 1997-2000	Functional Silane Coupling Agents : Grafting Incompatible Materials and Anchoring Transition Metals, NSERC Operating, 40 hr.	O	44000
<i>Brook, M.A.</i> 1997	Wood/Recycled Polyolefin Composites, OCMR	O	20000
<i>Lott, J.</i> 1996	Environmental Microscope, NSERC, Major installation	MI	633481
<i>Brook, M.A. (one of several major applicants)</i>			
<i>Kramer, J. M.</i> 1996	Molecular Modelling Software and Computer, NSERC	E	47710
<i>Brook, M.A.</i> Ford, D. Schwarz, H. Yang, D.			
<i>Brook, M.A.</i> 1996	Wood/Recycled Polyolefin Composites, OCMR	O	50000
<i>Brook, M.A.</i> 1994-6	Microparticle Delivery Systems for Immunogenic Agents, NSERC CRD Matching Funds	CRD	64500
<i>Brook, M.A.</i> 1995	Wood/Recycled Polyolefin Composites, OCMR	O	60000
<i>Brook, M.A.</i> 1995-96	Novel Membranes, Ontario-Singapore Technology	O	92000
<i>Dickson, J. M.</i>	(50% Brook)		
<i>Brook, M.A.</i> 1995-7	Silicone Modified Papers, MODO	O	21000
<i>Pelton, R.</i>	(50% Brook)		

Brook, M.A. 1995-6	Microparticle Delivery Systems for Immunogenic Agents, URIF Matching Funds, (50% Brook) Underdown, B.	O	122000
Brook, M.A. 1994-6	Oral Immunization Delivery Systems, McDermott, M. Connaught Laboratories (50% Brook) Underdown, B.	O	120000
Brook, M.A. 1994	Dynamic Light Scattering Apparatus, NSERC, Pelton, R. Winnik, F., Stöver, H.	E	105197
Brook, M.A. 1994	Silicon based Polymerization Initiators, OCMR	O	35000
Brook, M.A. 1994	Oral Immunization Delivery Systems, Connaught Lab.	O	120000
Brook M.A. 1993-96	Stereocontrol and Silicon: Application to Organic and Polymer Synthesis, NSERC	O	31000
Brook, M.A. 1993-	Silicon based Polymerization Initiators, OCMR	O	20000
Stöver, H.D.H. 1992	Differential Scanning Calorimeter, Thermalgravimetric	E	71559
Brook, M.A.	Analyzer, NSERC		
Brook, M.A. 1991	Oligosilylstyrenes as Glass Coating Materials, OCMR	O	15500
Brook, M.A. 1990-92	Pervaporative Membranes, URIF Matching Funds	O	57000
Dickson, J.	(50% Brook)		
Brook, M.A. 1990-92	Pervaporative Membranes, NSERC CRD Matching Funds	O	54000
Dickson, J.	(50% Brook)		
Brook, M.A. 1990-92	Pervaporative Membranes, ICST	O	45000

Dickson, J.	(50% Brook)		
Brook, M.A. 1990-92	Organosilicon compounds: From the β -effect to Polymers, NSERC	O	30000
Brook, M.A.	Polymers, OCMRO	4500	1989
Brook, M.A. 1989	Silicone Polymers, Dow Corning	O	6500
Brook, M.A. 1989	Gel Permeation Chromatograph, NSERC	E	54260
Brook, M.A. 1988	Sterically Stabilized Particles, Xerox	O	5000
Pelton, R.	(50% Brook)		
Brook, M.A. 1988	Glycol-Silicone Polymers, J.P. Bickell Foundation	O	12500
Brook, M.A. 1988-89	Chiral Manifolds & Lewis Acids: Organosilane & Titanium Compounds, NSERC	O	30000
Brook, M.A. 1988	Oligotrihalosilylstyrenes: & Polymer Blending Agents OCMR	O	12500
Brook, M.A. 1987-90	Polysilylstyrenes, MIPPT	O	5000
Brook, M.A. 1987	Silicone Coating Materials, SEED (E + IC)	O	2600
Falletta, P.			
Brook, M.A. 1987	Organosilicon Compounds Bearing Chiral Ligands: Synthetic Applications NATO	O	2500
Brook, M.A. 1987	Lewis Acids in Enantioselective Organic Synthesis McMaster University	O	13000

Brook, M.A. 1986	Polysilylstyrenes, MIPPT	O	2000
Brook, M.A. 1985-87	The Application of the Trifluorosilyl Group to Organic Synthesis NSERC	O	17280
Brook, M.A. 1985	Lewis Acids in Organic Synthesis, McMaster University	O	15000

Lifetime Publications (Green – undergraduates; Red = graduate students; Blue = PDFs)

Peer Reviewed

(a) Books

- 1 B BROOK, M. A. *SILICON IN ORGANIC, ORGANOMETALLIC AND POLYMER CHEMISTRY*, WILEY: NEW YORK, 2000, 608 pages, (704 including tables, and indices, SOLE AUTHOR).

(b) Contributions to Books

6. F M. Liu, A. Ragheb, P. Zelisko, and M. A. Brook, *Preparation and Application of Silicone Emulsions Using Biopolymers*, In *Colloidal Biomolecules, Biomaterials, and Biomedical Applications* (Surfactant Science, Vol. 116), Eläissari, Abdelhamid, Ed.; Mercel Dekker Inc., 2004, Chapter 11, pages-309-329, invited manuscript.
5. N Laronde, F.; Brook, M. A. *Amino acid catalysts for the enantioselective hydrosilane reduction of carbonyl groups*, In *Catalysts for the Fine Chemical Synthesis*, Vol. 1, *Hydrolysis, Oxidation and Reduction*, Roberts, Stan M.; Poignant, G., Eds., 2002, pp. 169-172.
4. F Bartzoka, V.; McDermott, M. R.; Brook, M. A., *Protein-Silicone Interactions at Liquid/Liquid Interfaces*, In *Emulsions, Foams and Thin Films*, Mittal, K. L.; Kumar, P., Eds., Dekker, New York, 2000, Chap. 21, pp. 371-380, Invited manuscript.
3. R Adrian G. Brook and Michael A. Brook, *The Chemistry of Silenes*, *Adv. Organomet. Chem.*, 1996, 39, 71-158.
2. R Michael A. Brook, *1,2-bis-(Trimethylsilyloxy)cyclohexene*, in *Encyclopaedia of Reagents in Organic Synthesis*, L. Paquette, Ed., John Wiley and Sons, Vol 1, 1995, p. 602, invited manuscript.
1. R Michael A. Brook, *tert-Butyl α -chloro- α -trimethylsilylacetate*, in *Encyclopaedia of Reagents in Organic Synthesis*, L. Paquette, Ed., John Wiley and Sons, Vol. 2, 1995, p. 862, invited manuscript.

(c) Journal Articles (C = communication, N = Note, F = Full paper, R = Review)

128. C Ferdinand Gonzaga and Michael A. Brook, *Structured Nanoparticles in Silicone Surfactant Multilayers*, *Angew. Chem. Int. Ed.*, submitted 11/8/2005

Accepted for Publication

132. C Weian Zhao, Yan Gao, Srinivas A. Kandadai, Michael A. Brook* and Yingfu Li. *DNA Polymerization on Gold Nanoparticles via Rolling Circle Amplification: Towards Novel Scaffolds for Three-Dimensional Periodical Nanoassembly*, accepted *Angew. Chem. Ed. Engl.* Jan 2006.

131. F Elodie Pacard, Michael A. Brook, Amro M. Ragheb, Christian Pichot and Carole Chaix. *Elaboration of silica colloid/polymer hybrid support for oligonucleotide synthesis*, *Colloids Surf. B: Biointerfaces*, accepted, Dec. 2005.

130. F Chen, H., Brook, M. A., Sheardown, H. D., Chen, Y., Klenkler, B. *A Generic Bioaffinity Surfaces*, accepted *Bioconjugate Chemistry* Nov 2005 (ACS ASAP CODEN: BCCHE5 ISSN:1043-1802. AN 2005:1345621).

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129. F Hodgson, Richard J.; Besanger, Travis R.; Brook, Michael A.; Brennan, John D. *Inhibitor Screening Using Immobilized Enzyme Reactor Chromatography/Mass Spectrometry*. *Anal. Chem.* **2005**, *77*, 7512-7519.

128. Liang, L.; Dickson, J. M.; Zhu, Z.; Jiang, J.; Brook, M. A., *Removal of 1,2-dichloroethane from aqueous solutions with novel composite polydimethylsiloxane pervaporation membranes*. *J. Appl. Polym. Sci.* **2005**, *98*, 1477-1491.

127. F Chen, H.; Chen, Y.; Sheardown, H.; Brook, M. A. *Immobilization of heparin on a silicone surface through a PEG spacer*, *Biomaterials*, **2005**, *26*, 7418-7424.

126. C Ragheb, A. M.; Brook, M. A. *Highly stable chymotrypsin entrapped in silicone elastomers*, *Biomaterials* **2005**, *26*, 6973-6983.

125. F Yang Chen, Zheng Zhang, Xihua Sui, John D. Brennan and Michael A. Brook, *Reduced Shrinkage of Sol-Gel Derived Silica Using Sugar-based Silsesquioxane Precursors*, *J. Mater. Chem.* **2005**, *15*, 3132 – 3141.

124. F Hodgson, Richard J.; Brook, Michael A.; Brennan, John D., *Capillary-Scale Monolithic Immunoaffinity Columns for Immunoextraction with In-Line Laser-Induced Fluorescence Detection*. *Anal. Chem.* **2005**, *77*, 4404-4412

123. F Dong, Hanjiang; Brook, Michael A.; Brennan, John D., *A New Route to Monolithic Methylsilsesquioxanes: Gelation Behavior of Methyltrimethoxysilane and Morphology of Resulting Methylsilsesquioxanes under One-Step and Two-Step Processing*, *Chem. Mater.* **2005**, *17*, 2807-2816.

122. F Sonya Balduzzi, Michael A. Brook and Michael J. McGlinchey. *Diastereoselective Addition of Allyl- and Crotylstannanes to Dicobalt-Complexed Acetylenic Aldehyde*, *Organometallics* **2005**, *24*, 2617-2627.121. F Kovarik, Peter; Hodgson, Richard J.; Covey, Tom; Brook, Michael A.; Brennan, John D. *Capillary-Scale Frontal Affinity Chromatography/MALDI Tandem Mass Spectrometry Using Protein-Doped Monolithic Silica Columns*, *Anal. Chem.* **2005**, *77*, 3340-3350.

120. F Masaaki Amako, Jonathan Schinkel, Michael A. Brook, Michael J. McGlinchey and James F. Britten, *Rac/meso Transformations of Disiloxane-bis(1-indenyl)-ansa-ferrocenes: An x-ray Crystallographic and NMR Study*, *Organometallics*, **2005**, 24, 1533-1543.119. F. Xihua Sui, Jorge A. Cruz-Aguado, Yang Chen, Zheng Zhang, Michael A. Brook and John D. Brennan, *Properties of Human Serum Albumin Entrapped in Sol-Gel-Derived Silica Bearing Covalently Tethered Sugars*, *Chem. Mater.* **2005**, 17, 1174-1182.

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115. F Masaaki Amako, Jonathan Schinkel, Lee Freiburger and Michael A. Brook, *Silicone Compatible, Siloxane-Supported Organometallic Compounds and Their Catalytic Activities for the Hydrosilylation of Vinylsilanes and Dienes*, *J. Chem. Soc., Dalton Trans.*, **2005**, 74 – 81.

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113. F Dina Tleugabulova, Andy M. Duft, Zheng Zhang, Yang Chen, Michael A. Brook and John D. Brennan, *Evaluating Growth Mechanisms of Silica Particles using Fluorescence Anisotropy Decay Analysis*, *Langmuir* **2004**, 20(14), 5924-5932.

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111. F Jorge A. Cruz-Aguado, Yang Chen, Zheng Zhang, Nadine H. Elowe, Michael A. Brook and John D. Brennan, *Ultrasensitive ATP Detection Using Firefly Luciferase Entrapped in Sugar-Modified Sol-Gel Derived Silica*, *J. Am. Chem. Soc.* **2004**, 126, 6878-6879.

110. F R. J. Hodgson, Y. Chen, Z. Zhang, D. Tleugabulova, H. Long, X. Zhao, M. Organ, M. A. Brook, J. D. Brennan, *Protein-Doped Monolithic Silica Columns for Capillary Liquid Chromatography Prepared by the Sol-Gel Method: Applications to Frontal Affinity Chromatography*, *Anal. Chem.* **2004**, 76, 2780-2790.

109. F Liang, Liang; Dickson, James M.; Jiang, Jianxiong; Brook, Michael A. *Pervaporation of 1,2-dimethoxyethane from aqueous solutions by crosslinked oligosilylstyrene-poly(dimethylsiloxane) composite membranes*. *J. Appl. Polym. Sci.* **2004**, 92, 2284-2294.

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polydimethylsiloxane composite membranes. J. Membrane Sci. 2004, 231(1-2), 71-79.

107. F Michael A. Brook, Yang Chen, Kui Guo, Zheng Zhang and John D. Brennan, *Sugar-Modified Silanes: Precursors for Silica Monoliths, J. Mater. Chem. 2004, 14, 1469 – 1479.*

106. F Dina Tleugabulova, Zheng Zhang, Yang Chen, Michael A. Brook and John D. Brennan *Fluorescence Anisotropy in Studies of Solute Interactions with Covalently Modified Colloidal Silica Nanoparticles, Langmuir 2004, 20, 848-854.*

105. F Michael A. Brook, Hong Chen and Heather Sheardown, *Silicone elastomers for reduced protein adsorption, Biomaterials, 2004, 25, 2273-2282.*

104. F Frank J. LaRonde and Michael A. Brook, *Allylation of aldehydes catalyzed by chiral N,N'-bis(N-methyl-2-methylene-4,5-bisphenyl-imidazole)-1,2-cyclohexane diamine rhodium (III) complexes, Can. J. Chem. 2003, 81, 1206-1212*, issue dedicated to John Harrod, invited manuscript.

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98. F P. Zelisko, M. A. Brook, *Stabilization of α -Chymotrypsin and Lysozyme Entrapped in Water-In-Silicone Oil Emulsions, Langmuir, 2002, 18, 8982-8987.*

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96. F Michael A. Brook, Paul M. Zelisko, Maeghan J. Walsh and Janinne N. Crowley, *Silicone-protein surfactants: stability of water-in-silicone oil emulsions, Silicon Chem. 2002, 1, 99–106.*

95. F M. S. Eikeland, M.-B. Hägg, Michael A. Brook, M. Ottøy, A. Lindbråthen, *Durability of Poly(dimethylsiloxane) when exposed to Chlorine Gas, J. Appl. Pol. Sci. A., 2002, 85, 2458-2470.*

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93. F Gilles Sèbe and Michael A. Brook, *Hydrophobization of Wood Surfaces: Covalent Grafting of Silicone Polymers, Wood Sci. Tech. 2001, 35, 269-282.*

92. C Mohamed, M.; Brook, M. A. *Synthesis of Allylsilane-Containing Amino Acids via the Claisen Rearrangement, Tetrahedron Lett. 2001, 42, 191-193.*

91. F Mustafa Mohamed and Michael A. Brook, *Photolysis of Tris(trimethylsilyl)silane: Trapping of Sisyl Radicals, Can. J. Chem. 2000, 78, 1357-1362.*

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88. F Sonya Balduzzi, Krista Kerr and Michael A. Brook, *Alkoxyallylsilanes: Functional Protecting Groups, Tetrahedron* **2000**, *56*, 1617-1622.

87. F Stradiotto, M.; Brook, M. A.; McGlinchey, M. J. *The Molecular Dynamics and Reactivity of Tris(1-Indenylsilane): An NMR Spectroscopic and X-ray Crystallographic Study, J. Chem. Soc., Perkin Trans. 2*, **2000**, *611*-618.

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Interface between a Functional Silicone and a Protein/Starch Microparticle, Langmuir **1997**, *13*, 6279-6286.

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136. Brook MA, Brennan, J, Zhang, Z, Chen, D, Gao, Y. *Proteins trapped in porous silica: Biomaterials Scaffolds*. 7th International Biomaterials Conference, Sydney, Australia, May 2004, Abstract 590.
135. Zhang Z. Chen, Y, D'souza, R, Brennan, JD, and Brook, MA, *Biocompatible Macroporous Silica Monoliths with Entrapped Proteins*, 7th International Biomaterials Conference, Sydney, Australia, May 2004, Abstract 1323
134. Ragheb AR, Hrynyk, M, Brook, MA, *Silicone-Lipase Composite: Affecting Protein-Silicone Interaction By Tailoring The Polymeric Structure*, 7th International Biomaterials Conference, Sydney, Australia, May 2004, Abstract 1748.
133. Amarne, H., Gao, Y., Guo, J., Chen, H., Sheardown, H., Brook, M. A. Silicon Lenses for the Mitigation of Scarring in the Eye MMO and EMK Meeting: Toronto, Canada, June, 2004.

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130. Brook, M. A. *Breast Implant Lawsuits – A Tempest in a C-Cup?* Rotary Lunchtime Lectures, Feb. 2004, Hamilton.
129. Amro Ragheb, Hong Chen, Meghan L. Marshall, Michael Hrynyk, Heather Sheardown and Michael A. Brook, *Controlling Protein Deposition at Silicone Elastomer Interfaces*, 227th ACS National Meeting, Anaheim, CA, March, 2004.
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127. Paul M. Zelisko, Jill J. Coo-Ranger, and Michael A. Brook, *The Interaction of Proteins with Functionalized Silicones*, 227th ACS National Meeting, Anaheim, CA, March 2004, Abstract POL 391.
126. Michael A. Brook, Paul Zelisko, Hong Chen, Muxin Liu, Amro Ragheb, Michael Hrynyk, and Heather Sheardown, *Interfacial Control with Proteins at Silicone/Water Interfaces*, Polymerisation in Dispersed Media, PDM April 2004, Lyon, France, Abstact O5.5.
125. Elodie Pacard, Michael A. Brook, Amro M. Ragheb, Carole Chaix, and Christian Pichot, *Elaboration of Silica/polymer hybrid support for oligonucleotide synthesis and biodiagnostics*, Polymerisation in Dispersed Media, PDM April 2004, Lyon, France.
124. Yang Chen, Zheng Zhang, John D. Brennan, Michael A. Brook,* *A glycerol-derived silica precursor for the encapsulation of protein in porous silica monoliths*, XII International Workshop on Sol-Gel Science and Technology, Sydney, Australia, August 2003, Abstract 788.
- 123 Michael A. Brook,* Yang Chen, Kui Guo, Zheng Zhang, Wen Jin, Anil Deisingh and John D. Brennan*, *Sugar-Modified Silanes: Precursors for Silica Monoliths*, XII International Workshop on Sol-Gel Science and Technology, Sydney, Australia, August 2003, Abstract O-50.
122. Masaaki Amako, Michael A. Brook, *Ring Flipping Behavior of O(SiMe₂-η⁵-Indenyl)₂Fe complexes and Their Co-Polymerization with Silicones*, OMCOS 12, Toronto, July 2003, Abstract.
- 121 Stefanie A. W. Mortimer, Paul M. Zelisko, and Michael A. Brook, *Protein Deposition On Modified Silica Surfaces*, 36th Organosilicon Symposium, Akron (won best student prize).
120. Paul M. Zelisko and Michael A. Brook, *The Properties Of Human Serum Albumin And Triethoxysilyl-Terminated Polydimethylsiloxane At The Interface Of Water-In-Silicone Oil Emulsions*, 36th Organosilicon Symposium, Akron
119. S. A. W. Mortimer, P. M. Zelisko, M. A. Brook, *A Novel Approach to Amino Acid-Modified Silicones*, 2003 IUPAC Congress and 86th Conference of The

Canadian Society for Chemistry, Ottawa ON, Aug. 2003, Abstract. (won best undergraduate student MSED poster).

- 118. P. M. Zelisko, M. A. Brook, *The Interaction of Proteins with Silicone Polymers Containing Hydrophilic Moieties*, 2003 IUPAC Congress and 86th Conference of The Canadian Society for Chemistry, Ottawa ON, Aug. 2003, Abstract.
- 117. A. M. Ragheb, M. A. Brook, *The role of hydrophilic additives in affecting the internal hydrophobic environment of silicone rubber: effect of polyethylene glycol species on the enzymatic activity of lipase C. rugosa entrapped in silicone composite*, 2003 IUPAC Congress and 86th Conference of The Canadian Society for Chemistry, Ottawa ON, Aug. 2003, Abstract. (Won 1 of 3 best graduate students posters).
- 116. Hong Chen, Michael A. Brook and Heather Sheardown, *A New Approach to PEO-Modified Silicone Rubber: Passivation of Silicone Surfaces for Protein Rejection and Cell Growth*, 29th Annual Biomaterials Society Meeting, Reno Nevada, May 2003, Abstract.
- 115. Zheng Zhang, Michael A. Brook, *The Biporous Structure of Monolithic Silica Columns Containing Entrapped Proteins*, International Symposium on Organosilicon Chemistry, Guanajuato, Mexico, August 2002, Abstract P1-60.
- 114. Paul M. Zelisko and Michael A. Brook, *The Interaction of Proteins and Silicones at Emulsion Interfaces: Analysis of Protein and Emulsion Stability*, International Symposium on Organosilicon Chemistry, Guanajuato, Mexico, August 2002, Abstract P1-54.
- 113. Amro Ragheb and Michael A. Brook, *Oxidizable Coupling Agents: Introduction of Surface Functionality*, International Symposium on Organosilicon Chemistry, Guanajuato, Mexico, August 2002, Abstract P1-58.
- 112. Hong Chen, Michael A. Brook, and Heather D. Sheardown, *An Investigation of the Surface Properties and Biocompatibility of Polyethylene Oxide-Modified Silicone Rubber*, International Symposium on Organosilicon Chemistry, Guanajuato, Mexico, August 2002, Abstract P1-53.
- 111. Elodie Pacard, Hong Chen, Michael A. Brook, and Carol Chaix, *Compatibilization of Silica Surfaces For Proteins*, International Symposium on Organosilicon Chemistry, Guanajuato, Mexico, August 2002, Abstract P2-49.
- 110. Cindy M. Liu, Paul Zelisko and Michael A. Brook, *Protein-Silicone Conjugates: Surface Activity as a Guide to Utility as Biodegradable Surfactants*, International Symposium on Organosilicon Chemistry, Guanajuato, Mexico, August 2002, Abstract P2-29.
- 109. Yang Chen and Michael A. Brook, *Syntheses of Sugar-Based Coupling Agents and their Use in Preparing Protein-Friendly Silica Surfaces*, International Symposium on Organosilicon Chemistry, Guanajuato, Mexico, August 2002, Abstract P1-57.
- 108. Masaaki Amako and Michael A. Brook, *Transition Metal-Containing Silicones From Disiloxane Compounds*, International Symposium on Organosilicon Chemistry, Guanajuato, Mexico, August 2002, Abstract P2-23.

107. Li, G.; LaRonde, F. J.; Brook, M. A. *Stereoselective reduction of ketones with triethoxsilane catalyzed by C2-symmetric titanium complexes*, 224th ACS Meeting, Boston, August 2002, Abstract ORGN 509
106. M. A. Brook, V. Bartzoka, P. Zelisko, M. Walsh *Silicone-Protein Copolymers: Controlling Interfacial and Protein Stabilization*, 1st European Silicon Days, Munich, 2001 Abstract B11.
105. Brook, M. A., Laronde, F. J., Ragheb, A., *Controlling Silica Surfaces Using Responsive Coupling Agents*, Silica 2001, Mulhouse, France, Sept. 2001.
104. Mohamed, M.; Brook, M. A. *Synthesis of α -Allylsilane-Amino Acids and Their Reactions With Aromatic Acetals*, 212th ACS Meeting, Chicago, August 2001, Abstract ORGN 457.
103. Paul M. Zelisko, and Michael A. Brook, Modified silicones for the stabilisation of proteins and enzymes in emulsions: Potential Vaccine Delivery Systems, 212th ACS Meeting, Chicago, August 2001, Abstract POLY 403.
102. Brook, M. A., Zelisko, P. and Bartzoka, V. *Silicone-Protein Copolymers: Controlling Interfacial and Protein Stabilization*, International Workshop on Silicon Containing Polymers ISPO 2001, University of Kent at Canterbury, UK, June 2001, Abstract 57.
101. Paul Zelisko and Michael A. Brook, *Delivery of Proteinaceous Materials from Silicone Protected Microparticles and Water-in-Silicone Oil Emulsions*, Controlled Release Society, San Diego, June 2001, Abstract 6194.
100. Mustafa Mohamed and Michael. A. Brook, 84th Canadian Society for Chemistry Conference, Montreal, 2001, Abstract 1206.
99. Amro Ragheb and Michael. A. Brook, *The Role of Light in the Fouling of Wastewater UV-Disinfection*, 84th Canadian Society for Chemistry Conference, Montreal, 2001, Abstract 693.
98. Zelisko, PM; Flora, K; Brook, MA; Brennan, JD., *The Interaction of Silicone and Human Serum Albumin: Stabilisation Against Denaturation at the Interface*, 84th Canadian Society for Chemistry Conference, Montreal 2001, Abstract 1163.
97. Mustafa Mohamed and Michael. A. Brook, *C₂-Symmetric Lewis Acids: Enantioselective Reduction Of Carbonyl Groups*, 34th Organosilicon Symposium, White Plains, NY, May 2001, Abstract C-8.
96. Amro Ragheb and Michael. A. Brook, *An Attempt To Use Oxidizable Silane Coupling Agents To Mitigate Fouling of Quartz Surfaces*, 34th Organosilicon Symposium, White Plains, NY, May 2001, Abstract B-22.
95. Paul Zelisko and Michael. A. Brook, *Proteins and Enzymes at the Interface of Water-in-Silicone Oil Emulsions*, 34th Organosilicon Symposium, White Plains, NY, May 2001, Abstract A-10.
94. Brook, M. A.; Zelisko, P. *Exploiting Silicone-Protein Interactions: Stabilization Against Protein Denaturation at Interfaces*, 211th ACS Meeting, San Diego, April 2001, Abstract Poly181.
93. Brook, M. A.; Ragheb, A. *Oxidizable Coupling Agents: Introduction of Surface Functionality*, Adhesion Society Conf., Williamsburg, VA, Feb. 2001, Abstract 373.

92. Zelisko, P.; Brook, M. A. 20th Conference of the Canadian Biomaterials Society, *Water-In-Silicone Oil Emulsions in the Oral Delivery and Storage of Proteins and Enzymes*, Hamilton, August 2000.
91. Vasiliki Bartzoka and Michael A. Brook, Stable Silicone-Protein Emulsions: New Routes to Topical Delivery of Proteins, Society of Cosmetic Chemists Conference, Toronto, ON, May 2000.
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89. Frank J. LaRonde and Michael. A. Brook, *Enantioselective Reduction Using Extracoordinate Silicon*, 33rd Organosilicon Symposium, Saginaw MI, April 2000, Abstract PB-31.
88. Mustafa Mohamed and Michael A. Brook, *Photolyses Of Tris(Trimethylsilyl)Silane And Tris(Trimethylsilyl)Silyl ethers: Trapping Of Silyl Radicals And Silylenes*, 33rd Organosilicon Symposium, Saginaw MI, April 2000, Abstract PB-34.
87. Mustafa Mohamed and Michael A. Brook, *Synthesis Of Allylsilane-Containing Amino Acids Via The Claisen Rearrangement*, 33rd Organosilicon Symposium, Saginaw MI, April 2000, Abstract PB-33.
86. Amro M. Ragheb, Michael A. Brook, *Squalene-Polysiloxane Cross Linked Polymer*, 33rd Organosilicon Symposium, Saginaw MI, April 2000, Abstract PB-35.
85. Ahmed H. Alzamly and Michael. A. Brook, *Thermoplastic Silicone Elastomers*, 33rd Organosilicon Symposium, Saginaw MI, April 2000, Abstract PB-36.
84. Paul Zelisko and Michael. A. Brook, *Enhanced Stability Of Alpha-Chymotrypsin And Alkaline Phosphatase Entrapped In Water-In-Silicone Oil Emulsions*, 33rd Organosilicon Symposium, Saginaw MI, April 2000, Abstract PB-32.
83. V. Bartzoka, M. A. Brook, *Protein-Silicone Synergies at Liquid-Liquid Interfaces*, Gordon Research Conference on Polymer Colloids, Tilton NH, July 1999, Abstract 42.
82. Sonya Balduzzi and M. A. Brook, Stereoselective carbon-carbon bond formation via cobalt-complexed alkynes, 82nd Canadian Society for Chemistry Conference, Toronto, June 1999, Abstract 666.
81. Frank J. LaRonde; Michael A. Brook, *Stereoselective Reduction of Ketones by Histidine: Alkoxy silane Complexes*, 82nd Canadian Society for Chemistry Conference, Toronto, June 1999, Abstract 684.
80. M. Mustafa and Michael A. Brook, *Application of the Claisen Rearrangement to the Synthesis of Amino Acid-Modified Allylsilanes*, 82nd Canadian Society for Chemistry Conference, Toronto, June 1999, Abstract 923.
79. D. Alberico, M. A. Brook, *Thermally Reversible Siloxane Elastomer*, 82nd Canadian Society for Chemistry Conference, Toronto, June 1999, Abstract Number: 18 (undergrad).
78. M. Mustafa and Michael A. Brook, *Synthesis of Allylsilanes via Ester Enolate Claisen Rearrangement of Vinylsilane-Modified Amino Acids*, Quebec and Ontario Minisymposium on Biological and Organic Chemistry, Brock University, Oct. 1998, Abstract 58.

77. F. J. Laronde and Michael A. Brook, *Reduction of Ketones with Hypervalent Trialkoxysilanes: Imidazole-Mediated Reduction of Carbonyl Compounds*, Quebec and Ontario Minisymposium on Biological and Organic Chemistry, Brock University, Oct. 1998, Abstract 57.
76. S. Baldazzi and Michael A. Brook, *Stereoselective Intramolecular Allyl Transfer*, Quebec and Ontario Minisymposium on Biological and Organic Chemistry, Brock University, Oct. 1998, Abstract 59.
75. Wayne W. Y. Lau, Brendan Hyland, James M. Dickson and Michael A. Brook, *Removal of Trace Organics from Water by Pervaporation using a composite hollow fiber Membrane with a Novel Silicone coating*, 4th National symposium on Progress in Materials Research, National University of Singapore, Mar., 1998, Proceedings 546-549.
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72. V. Bartzoka and Michael A. Brook, *Protein-Silicone Interactions at Liquid/Liquid Interfaces*, 72nd ACS Colloid and Surface Science Symposium, Penn. State, Pennsylvania, June 1998, Abstract 59.
71. F. Laronde and Michael A. Brook, *Diels-Alder Coupling Agents:Reversible Modification of Silica Surfaces*, 31st Organosilicon Symposium, New Orleans, May 1998, Abstract.
70. R. Stan and Michael A. Brook, *Polysiloxane Polymers Containing Nitrilotriacetic Acid Chelating Groups*, 31st Organosilicon Symposium, New Orleans, May 1998, Abstract.
69. J. Jiang, V. Bartzoka, D. Valentini and Michael A. Brook, *Surface Hydrophobization of Hydrophilic Biopolymers Using Silanes and Silicones*, Polymer Colloids Gordon Conference, Tilton, NH, July 1997.
68. Ruffolo, R., Stradiotto, M., Kuhnen, T., McGlinchey, M. J., Brook, M. A., *Molecular Lego: Building Blocks For Inorganometallic Polymers*, 80th Canadian Society for Chemistry Conference, Windsor, June 1997, Abstract.
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66. Ralph Ruffolo, *Allylsilanes as Possible Precursors to Metal-Stabilised Silicon Cations*, 30th Organosilicon Symposium, London, Ont., May 1997, Abstract.
65. Gilles Sèbe, *Hydrophobisation of Pine Wood Surfaces by Grafting Polysiloxanes*, 30th Organosilicon Symposium, London, Ont., May 1997, Abstract.
64. Gang Hu, *Novel Polysiloxane Polymers Modified with Amino Acids*, 30th Organosilicon Symposium, London, Ont., May 1997, Abstract.

63. Mustafa Mohamed, *Photochemistry of Tris(trimethylsilyl)silane*, 30th Organosilicon Symposium, London, Ont., May 1997, Abstract.
62. Urguhart S.G., Hitchcock A.P., Brook M.A., Turci C.C., Denk M., *π -Delocalization in Organosilanes: A Core Excitation Spectroscopy Investigation*, 80th Canadian Society for Chemistry Conference, Windsor, June 1997, Abstract.
61. Michael A. Brook, S. Balduzzi, V. Bartzoka, G. Hu, F. LaRonde, G. Sèbe and R. Stan, *Modifying Biopolymers with Silanes and Silicones*, 4th International Conference on Woodfiber-Plastic Composites, Madison, WI, May 1997, Abstract.
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59. H. A. Ketelson, Y. M. Heng, M. A. Brook and R. Pelton, *Application of Microscopy Imaging and Analysis in the Characterizataion of a Model Colloidal Silica System*, 1996 Microscopy and Microanalysis Conference, Minneapolis, Minn., Aug., 1996.
58. R. Ruffolo, M. A. Brook and M. J. McGlinchey, *Towards the Stabilization of Silicon Cations*, 9th International Organosilicon Conference, Montpellier, France, Sept. 1996, Abstract OB21.
57. T. Kuhnren, R. Ruffolo, M. Stradiotto, M. A. Brook and M. J. McGlinchey, *Molecular Lego: Building Blocks for Inorganometallic Polymers*, 9th International Organosilicon Conference, Montpellier, France, Sept. 1996, Abstract PB24.
56. V. Bartzoka, M. A. Brook M. R. McDermott, *Silicone-Protein Absorption*, 9th International Organosilicon Conference, Montpellier, France, Sept. 1996, Abstract PB23.
55. V. Bartzoka, M. A. Brook, M. R. McDermott, *Protein-Silicone Interactions at a Solid-Liquid Interface*, 212th ACS Meeting, Orlando, Florida, Aug. 1996, Abstract COLL-39.
54. H. A. M. Ketelson, R.H. Pelton and M.A. Brook, *Surface Properties of Hydrosilane-Modified Silica Colloids*, 212th ACS Meeting, Orlando, Florida, Aug. 1996, Abstract COLL-202.
53. H. A. M. Ketelson, M.A. Brook and R.H. Pelton, *Preparation of Organo-Platinum nanoparticles Supported on Silica Spheres*, 70th ACS Colloid and Surface Symposium, Clarkson University, Potsdam, NY, June 1996, Abstract 43.
52. V. Bartzoka, M. A. Brook, D. Valentini and M. R. McDermott, *Surface Interactions between Proteins and Silicon Polymers: Physical and Covalent Adhesion*, 70th ACS Colloid and Surface Symposium, Potsdam NY, June 1996, Abstract 147.
51. Robert Pelton, Huining Xiao, Michael A. Brook and Archie Hamielec, "The flocculation of polystyrene latex with mixtures of poly(p-vinyl phenol) and poly(ethylene oxide)", Paper Chemistry and Coating, Ottawa, June (1996).
50. Rodica Stan and Michael A. Brook, *Wood-Polyethylene Composite Materials*, 3rd International Conference on Woodfiber-Plastic Composites, Toronto, May 1996, Abstract.

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48. Vasiliki Bartzoka, Michael A. Brook and David Valentini, *Silicon-based Coupling Agents for the Compatibilization of Hydrophobic and Hydrophilic Polymers*, 29th Organosilicon Symposium, Evanston, Ill., Apr. 1996, Abstract P-23.
47. Michael A. Brook, Rodica S. Stan and David Valentini, *Silicone-Protein-Starch Adsorption*, 29th Organosilicon Symposium, Evanston, Ill., Apr. 1996, Abstract P-23.
46. Mark Stradiotto, Suzie Rigby, Don Hughes, Alex Bain, Michael A. Brook and Michael A. McGlinchey, *A Multi-Dimensional NMR Study on the Fluxional Behaviour of Tris(indenyl)methylsilane: Molecular Dynamics Mapped Onto A "Hypercube"*, 29th Organosilicon Symposium, Evanston, Ill., Apr. 1996, Abstract P-5.
45. F. David Bayles and Michael A. Brook, *Understanding the α - and β -Silyl Cation Effect*, 29th Organosilicon Symposium, Evanston, Ill., Apr. 1996, Abstract P-7.
44. H. A. M. Ketelson, M.A. Brook and R.H. Pelton, *Colloidal Stability of Functionalized Silica Colloids in Polar Organic Media*, Gordon Research Conference on Polymer Colloids, Tilton, NH, 1995, Abstract P-45.
43. Michael A. Brook, H. A. M. Ketelson and R.H. Pelton, *Silicones on the Surface: Synthetic Approaches to Model Sterically Stabilized Colloidal Systems*, Gordon Research Conference on Polymer Colloids, 1995, Abstract P-46.
42. Michael A. Brook, Vassiliki Bartzoka, Jason R. Bernais and David A. Valentini, *Silicone-Biopolymer Interactions: Physical versus Covalent Adhesion, Associating Polymers Conference*, Loen, Norway, June 1995, Abstract P-7.
41. F. David Bayles and Michael A. Brook, *α and β -Silyl Carbenium Ions*, 78th Canadian Society for Chemistry Conference, Guelph, 1995, Abstract 286.
40. David A. Valentini, Michael A. Brook, Vassiliki Bartzoka and Mark R. McDermott, *Approaches to Grafting Silicones to Cellulose and Starch*, 78th Canadian Society for Chemistry Conference, Guelph, 1995, Abstract 686.
39. Vassiliki Bartzoka, Michael A. Brook, David A. Valentini and Mark R. McDermott, *Surface Interactions Between Proteins and Silicone Polymers: Physical and Covalent Adhesion*, 78th Canadian Society for Chemistry Conference, Guelph, 1995, Abstract 687.
38. Jianxiong Jiang, Michael A. Brook and Mark R. McDermott, *Silicone Grafted Starch Microspheres: Approaches to the Delivery of Bioactive Polymers*, 78th Canadian Society for Chemistry Conference, Guelph, 1995, Abstract 688.
37. H. A. M. Ketelson, M.A. Brook and R.H. Pelton, *Colloidal Stability of Functionalized Silica Colloids in Polar Organic Media*, 78th Canadian Society for Chemistry Conference, Guelph, 1995, Abstract 254.
36. Ralph Ruffolo, Michael A. Brook and Michael J. McGlinchey, *Towards the Stabilization of Silenes on Bimetallic Clusters*, 78th Canadian Society for Chemistry Conference, Guelph, 1995, Abstract 853.

35. F. D. Bayles and M. A. Brook, α and β -Silyl Carbenium Ions, 28th Organosilicon Symposium, Gainsville, Florida, April 1995, Abstract P-7.
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32. C. Le Roux, H. Yang, S. Wenzel and M. A. Brook, Using "Anhydrous" Hydrolysis to Favor Formation of Hexamethylcyclotrisiloxane from Dimethylidichlorosilane, 28th Organosilicon Symposium, Gainsville, Florida, April 1995, Abstract B-18.
31. V. Bartzoka, M. A. Brook, D. Valentini[†] and Mark R. McDermott[†], Surface Interactions Between Proteins and Silicon Polymers: Physical and Covalent Adhesion, 28th Organosilicon Symposium, Gainsville, Florida, April 1995, Abstract P-6.
30. M.A. Brook and T. Stefanac, Silane Radical Polymerization Initiators; Functionalized Homopolymers and Block Copolymers, IIIrd International Symposium on Radical Copolymers, Lyon, France, April 1994, Abstract P-52.
29. H. Ketelson, R.H. Pelton and M.A. Brook, Polyolefin and Silicone Sterically Stabilized Colloids, IIIrd International Symposium on Radical Copolymers, Lyon, France, April 1994, Abstract, Abstract 148.
28. M.A. Brook and T. Stefanac, Silane Radical Polymerization Initiators; Functionalized Homopolymers and Block Copolymers, XXVII Organosilicon Symposium, Troy, New York, March 1994, Abstract B-29.
27. M.A. Brook, G. McGibbon and C. Roos, Towards Silanones, XXVII Organosilicon Symposium, Troy, New York, March 1994, Abstract P-54.
26. R. Ruffolo, L. Girard, H. Gupta, A. Decken, M.A. Brook and M.J. McGlinchey, Towards Metal Stabilized Silicon Cations, XXVII Organosilicon Symposium, Troy, New York, March 1994, Abstract P-57.
25. M.A. Brook and M. Roth, The substitution of Electrophiles in Polymeric Systems: Surprisingly Unreactive Vinylsilanes, XXVII Organosilicon Symposium, Troy, New York, March 1994, Abstract P-55.
24. H. Ketelson, M.A. Brook and R.H. Pelton, Post-Grafting Silicone Polymers to Vinyl Modified Colloidal Silica Spheres: Switching from an Electrostatically Stabilized Dispersion to a Sterically Stabilized Dispersion, XXVII Organosilicon Symposium, Troy, New York, March 1994, Abstract P-30.
23. J.M. Dickson, M.A. Brook, C.K. Yeom, J. Jiang, H.K. Gupta, K. Rilling and B.J. Trushinski, Development of crosslinked oligostyrene pervaporation membranes for the removal of chlorohydrocarbons from water, International Congress on Membranes and Membrane Processes, (ICOM-93), Heidelberg, Germany, Sept. 1993, Abstract 5.11.
22. Jianxiong Jiang and Michael A. Brook, The Redistribution Reactions Between Cyclic Silicones and Trichlorosilanes, Canadian Society for Chemistry Conference, Sherbrooke, June 1993, Abstract 540 IN E3.

21. Courtney Henry and Michael A. Brook, *Electrophilic Addition Reactions Involving Organosilane π -Nucleophiles*, Canadian Society for Chemistry Conference, Sherbrooke, June 1993, Abstract 139 IN BSP.
20. M. A. Brook, *The β -effect: Modifying the Ligands on Silicon for Synthetic Control*, OMCOS 6, Utrecht, The Netherlands, August 1991, Abstract A-70.
19. G. A. McGibbbon, M. A. Brook and J. K. Terlouw, *Investigation of β -Silicon Vinyl Carbenium Ions in the Gas Phase*, Canadian Chemical Conference, Hamilton, June 1991, Abstract 857P.
18. C. Dallaire and M. A. Brook, *The Relative Magnitude of the β -effect of Silyl, Germyl and Stannyl Groups in the Stabilization of Vinyl Cations*, Canadian Chemical Conference, Hamilton, June 1991, Abstract 702P.
17. C. Henry, R. Jueschke and M. A. Brook, *Stereocontrolled Addition Reactions of Carbon Electrophiles to Styrylsilanes*, Canadian Chemical Conference, Hamilton, June 1991, Abstract 700P.
16. P. Modi, M. A. Brook and J.D. Dickson, *Silicon Functionalized Styrene Polymers: Cationic Control with the β -effect*, Canadian Chemical Conference, Hamilton, June 1991, Abstract 461P.
15. M. A. Brook, D.K. Chau and W. Yu, *Electrophilic Cleavage Reactions of Alkoxyhydrosilanes: The Special Case of Tartaric Acid*, XXIV Organosilicon Symposium, El Paso, April 1991, Abstract 99.
14. R. H. Peiton, A. Osterroth and M. A. Brook, *Steric Stabilization of Colloidal Particles*, 73rd Canadian Chemical Conference, Halifax, July 1990, Abstract 741.
13. C. Dallaire and M. A. Brook, *Study of the Stabilization of Vinyl Cations (β -effect) by Group 14 Metals*, IX International Symposium on Organosilicon Chemistry, Edinburgh, Scotland, July 1990, Abstract 4.8.
12. M. A. Brook, R. Jueschke, W. Yu and A. Neuy, *Electrophilic Addition Reactions of β -Silylstyrenes: The Pursuit of a Stable β -Silyl Carbocation*, IX International Symposium on Organosilicon Chemistry, Edinburgh, Scotland, July 1990, Abstract 4.7.
11. Michael A. Brook and S. Müller, *The β -effect in Silyl Enol Ether Reactions: Trapping the Intermediate Siloxy Carbenium Ion*, XXIII Organosilicon Symposium, Midland, Michigan, April 1990, Abstract B4.
10. Michael A. Brook, *The β -effect: Changing the Ligands on Silicon*, 17th Annual Ontario-Quebec Physical Organic Minisymposium, Quebec, Nov. 1989.
9. Michael A. Brook, Peter Hülser and Thomas Sebastian, *Oligotrichlorosilylstyrenes: Highly Functionalized Silicone Precursors*, 25th Canadian High Polymer Symposium, Mississauga, Canada, Aug. 23-25, 1989.
8. Michael A. Brook, Mahmud A. Hadi and Axel Neuy, *An Examination of the β -Effect in an Addition Reaction with Different Ligands on Silicon*, XXII Organosilicon Symposium, Philadelphia, USA, April 1989, Abstract P-15.
7. Michael A. Brook, Elizabeth Jefferson and Thomas Sebastian, *Polytrihalosilylstyrenes: Exploiting the β -Effect for Polymer Synthesis*, 3rd North American Chemical Congress, June 1988, Toronto, Canada, Abstract ORGN-50.

6. Michael A. Brook and Christina H. Kremers, *Glycol-Silicones: Polymeric Organic Reagents?*, XXI Organosilicon Symposium, June 1988, Montreal, Canada, Abstract P-20.
5. Michael A. Brook, *Trihalosilylstyrenes: What happened to the α - and β -Effects*, 15th Annual Physical-Organic Minisymposium, Nov. 1987, Mississauga, Canada.
4. Michael A. Brook and Peter Hülser, *Silyl Triflates: Activators for Carbon-Carbon Bond Formation*, Chemical Institute of Canada Conference, Quebec, June 1987, Abstract ORG-42-D2.
3. Nick Henry Werstiuk, Michael A. Brook and Peter Hülser, *Thermolysis of Silyl Esters: An Ultraviolet Photoelectron Study*, 14th Annual Ontario-Quebec Physical Organic Minisymposium, Nov. 1986, Toronto.
2. Michael A. Brook and Dieter Seebach, *Stabilized Cyclic Nitronates: Intermediates for More Complex Heterocycles*, 10th International Congress of Heterocyclic Chemistry, August 1985, Waterloo, Canada, Abstract G-5-54.
1. T.H. Chan and Michael A. Brook, *Some Uses of Trimethylchlorosilane in Organic Synthesis*, Chemical Institute of Canada Conference, July 1982, Toronto, Abstract OR-18-7.

Invited Lectures: at Companies

39	Wacker Chemie, Burghausen Germany <i>Using Synthesis to Structure Interfaces: Making Silica and Silicones Biocompatible</i>	Jan. 2006
38	Xerox (XRCC) <i>Learning from Nature: Morphological Control of Silica under Mild Conditions</i>	Feb. 2005
37	Vistikon, Jacksonville Florida <i>Controlling biology at silicone interfaces: an integrated approach to ocular materials</i>	Dec. 2004
36	AMO, Newport Beach, CA <i>Controlling biology at silicone interfaces: an integrated approach to ocular materials</i>	March 2004
35	Specialty Minerals, Allentown, PA <i>Protein-doped, controlled morphology silica monoliths and chelating silicones: Learning from nature</i>	March 2004
34	Air Products, Allentown, PA <i>Protein-doped, controlled morphology silica monoliths: Learning from nature</i>	March 2004
33	QLT, Vancouver <i>An Integrated Approach to New Ocular Materials</i>	March 2004
32	Novartis Cibavision, Atlanta Georgia <i>Stabilizing Proteins in Silica and Silicones</i>	June 2003
31	Alcon, Fort Worth <i>Stabilizing Proteins in Silica and Silicones</i>	June 2003
30	Dow Corning, Midland Michigan <i>Controlling Enzyme Stability in Water-in-Silicone Oil Emulsions</i>	Apr. 2002
29	Genencor, Palo Alto <i>Silicone/protein interactions: Modifying hydrophobic/hydrophilic interactions to control both protein and interfacial stability</i>	Aug. 2001
28	Sasol, Austin Texas	Aug. 2001

An Introduction to Silanes and Silicones

27 General Electric Corporate Research and Development, Waterford NY May 2001
Silicones at Biopolymers Interfaces: A Look at Beneficial and Not-So-Beneficial Fouling

26 NPS Pharmaceuticals Mar. 2001
Silicone:Protein Conjugates: Emulsions that Stabilize Proteins Against Denaturation

25 Alcon, Fort Worth, Texas Feb. 2001
Protein-Silicone Mixtures for Biological Cleaning Applications

24 Glaxo Canada Feb. 2001
Silicone:protein conjugates: emulsions that stabilize proteins against denaturation.

23 GE-Bayer, Leverkusen June 2000
Silicon at the Interface: New Surface Active Silanes and Silicones

22 Goldschmidt, Essen June 2000
Silicon at the Interface: New Surface Active Silanes and Silicones

21 Specialty Minerals, Allentown PA April 2000
Chelating Silicones

20 CK Witco Corp. (Sistersville WV) Dec. 1999
Looking for New Hydrophilic Substrates to Bind to Silicones

19 Michigan Molecular Institute, Midland MI Oct. 1999
Silicones at the Interface: What Do Biopolymers Offer

18 General Electric, Waterford Oct. 1999
Silicones at the Interface: The Benefits of Combining Silicones with Biopolymers

17 Unilever, Port Sunlight, UK Sept. 1998
Working with Silicones

16 National Starch, New Jersey June 1998
Confusing Nature: A Look at the Hydrophobization of Biopolymers Using Silanes and Silicones

15 Brantford Chemical Inc. Dec. 1997
Using Silicon Chemistry in Drug Delivery: Prodrugs Based on Modified Silica and Oral Protein Delivery Using Silicones

14 Unilever, UK, Dec. 1997
Surface Active Materials Based on Silanes, Silicones and Natural Polymers.

13 Dow Corning Corp. Sept. 1997
Silicone-Organic Copolymers the Natural Way: An Exploration of Silicone- and Silane-Modified Biopolymers

12 MacMillan Bloedel, Vancouver BC Sept. 1997
(Reversible) Modification of Biopolymers Using Silane, Silicone and Organic Coupling Agents.

11 Eastman Chemical, Kingsport, Tennessee Aug. 1997
Wood-Plastic Composites: A Role for Organosilane and Silicone Chemistry

10 Rhône Poulenc, Lyon, France Feb. 1997
Two Very Different Areas of Silicone Chemistry: Hydrosilsesquioxane-platinum catalysts and Silicone-biopolymer copolymers

9 General Electric, Schenectady, NY Dec. 1996

Hard and soft siloxanes: hydrosilsequioxane: platinum catalysts and silicone: protein copolymers

8	3M London, Ontario	Sept. 1996
<i>Sticking to Biopolymers: Using the Concept of Functional Group Protection in Polymer Adhesion</i>		
	Rhône Poulenç, Paris, France (2 lectures)	May 1996
7	<i>Sterically Stabilized Silica Colloids</i>	
6	<i>Silicone-Protein Copolymers</i>	
5	Organon, Akzo, Oss, The Netherlands	April 1993
<i>Silicon as Mediator: Making the Drugs and Delivering Them to the Patient</i>		
4	Shell Research Amsterdam (KSLA)	July 1990
3	Dow Corning Corporation (Midland, USA)	April 1990
2	University of Toronto	April 1988
1	Xerox Research Centre of Canada	Sept. 1988

Invited Lectures: at Universities

81	Michael A. Brook, McMaster University Undergraduate Chemistry Society <i>Fighting the Imposter Syndrome as a Chemist,</i>	March 2006.
80	Université de Montpellier, II, France <i>La silicone et la silice dans une monde biologique: le contrôle de l'interface</i>	Jan. 2006
79	Brock University, Chemistry Department <i>Controlling protein stability in silicones and silica: Synthesis of new biomaterials</i>	Oct. 2004
78	University of Waterloo, Chemistry Department <i>Controlling protein stability in silicones and silica: Synthesis of new biomaterials</i>	Oct. 2004
77	McMaster University, BIMR Summer Research Program Weekly Seminar Series, June 2004 <i>Compatibilizing proteins with silica and silicones (what do graduate students actually do?)</i>	
76	Institute of Chemistry, Chinese Academy of Sciences, Beijing <i>Using Silicone:Protein Interactions to Stabilize Water/Oil Interfaces and Protein Structure</i>	Nov. 2003
75	Qingdao University of Technology <i>Stereocontrol Using Silyl Groups: Enantioselective Reductions and Claisen Rearrangements</i>	Nov. 2003
74	Huazhong University of Science and Technology <i>Using Silicone:Protein Interactions to Stabilize Water/Oil Interfaces and Protein Structure</i>	Nov. 2003
73	Wuhan University of Technology <i>Protein-Doped Mesoporous Silica for Drug Screening Applications</i>	Nov. 2003
72	Nanjing University <i>Using Silicone:Protein Interactions to Stabilize Water/Oil Interfaces and Protein Structure</i>	Nov. 2003
71	UWEB (University of Washington Engineered Biomaterials), Seattle, <i>Stabilizing Proteins in Silica and Silicones</i>	May 2003
70	Ian Wark Research Institute, University of South Australia, Adelaide, South Australia	

Michael A. Brook, Frank LaRonde, Mustafa Mohamed and Forrest Li March 2003
Stereocontrol Using Silyl Groups: Enantioselective Reductions and Claisen Rearrangements

69 Ian Wark Research Institute, University of South Australia, Adelaide, South Australia
M. A. Brook, Dan Chen, Kui Guo, Zhang Zheng, John Brennan, and Paul Zelisko March 2003
Formation of Protein-Containing Controlled Pore Silica for Drug Discovery

68 Perspectives on Silicon (6 hours lectures during a 30 hour short course), Ian Wark Research Institute, University of South Australia, Adelaide, South Australia July 2002

67 Queensland University of Technology, Brisbane, Australia June 2002
Bringing Organic Chemistry to Silicon-based Interfaces

66 University of Sydney, Australia June 2002
The Passivation of Silica and Protein/Water Interfaces Using Silane Coupling Agents and Functional Silicones.

65 Flinders University, Adelaide, Australia June 2002
Stabilization of Water-in-Silicone Oil Emulsions: Surfactants Formed by the Interaction of Proteins/enzymes and Functionalized Silicones
Preparing and Passivating Silica: Matching Surface Chemistry to Application

64 University of South Australia, Adelaide, Australia June 2002
The Passivation of Silica and Protein/Water Interfaces Using Silane Coupling Agents and Functional Silicones.

63 McMaster University: Undergraduate Chemistry Series March 2002
From Oral Vaccines to Breast Implants: What Happens When Proteins Meet Silicones?

62 Ecole Nationale Supérieure, Lyon, France Feb. 2002
Protéines chez soi: Dans les silicones et dans la silice (New homes for proteins in silicones and silica)

61 University of Dresden, Germany, Institute of Polymer Research Feb. 2002
The passivation of silica and silicone surfaces using silane coupling agents and proteins.

60 University of Toronto Feb. 2001
Silicone/protein interactions: Modifying hydrophobic/hydrophilic interactions to control both protein and interfacial stability

59 University of Windsor Sept. 2000
Exploiting Extracoordinate Silicon: Enantioselective Reductions and Aldol Reactions Catalyzed by Chiral Amines (and some Silicone-Protein Stuff)

58 Institut National des Sciences Appliquées de Lyon July 2000
Silicium à l'Interface: Silanes et Silicones Fonctionnalisés

57 Institut Charles Sadron, Université Louis Pasteur June 2000
Silicium à l'Interface: Silanes et Silicones Fonctionnalisés

56 Université de Bordeaux I May 2000
Combining Silicones and Biopolymers: Controlling the Interface (en français)

55 Ecole Normale Supérieure de Lyon May 2000
Silicium à l'Interface: Silanes et Silicones Fonctionnalisés

54 University of Twente May 2000

<i>Silicon at the Interface: New Surface Active Silanes and Silicones</i>	
53	University of Amsterdam
<i>Exploiting Extracoordinate Silicone: Enantioselective Reductions and Aldol Reactions Catalyzed by Chiral Amines</i>	
52	Kyoto University
<i>Chiral Extracoordinate Hydrosilanes Derived from Bidentate Ligands: Enantioselective Reduction of Ketones</i>	
51	Kyoto Institute of Chemistry
<i>Gifts From Nature: New Materials From Silicones and Biopolymers</i>	
50	Chinese University of Hong Kong
<i>Gifts From Nature: New Materials From Silicones and Biopolymers</i>	
49	University of Hong Kong
<i>Chiral Extracoordinate Silanes: Catalytic and Enantioselective Reduction</i>	
48	Hong Kong University of Science and Technology
<i>Chiral Extracoordinate Silanes Derived From Histidine: Catalytic and Enantioselective Reduction</i>	
47	McMaster University President's Stewardship "Over the Ivy Wall"
<i>Confusing Nature: What does Lemon Pledge have to do with Oral Vaccines?</i>	
46	Chemical Engineering, McMaster University
<i>Confusing Nature: A Look at the Hydrophobization of Biopolymers Using Silanes and Silicones</i>	
45	Brock University
<i>Stereoselective Reduction of Ketones by Histidine: Alkoxy silane Complexes</i>	
44	Mount Allison University
<i>Confusing Nature: A Look at the Hydrophobization of Biopolymers Using Silanes and Silicones</i>	
43	University of New Brunswick
<i>Confusing Nature: A Look at the Hydrophobization of Biopolymers Using Silanes and Silicones</i>	
42	Acadia University
<i>Confusing Nature: A Look at the Hydrophobization of Biopolymers Using Silanes and Silicones</i>	
41	Dalhousie University
<i>Confusing Nature: A Look at the Hydrophobization of Biopolymers Using Silanes and Silicones</i>	
40	McMaster University Board of Governors
<i>Combining Silicones and Biopolymers: New Materials</i>	
39	Telemark University, Porsgrunn, Norway
<i>Silicone Degradation Mechanisms</i>	
38	Swedish Institute for Pulp and Paper, Stockholm and Swedish Institute For Surface Science, Stockholm
<i>Silane and Silicone Coupling Agent Chemistry: Are Biopolymer Surfaces Like Siliceous Surfaces?</i>	
37	University of Toronto, Faculty of Pharmacy,

<i>Using Silicon Chemistry in Drug Delivery: Prodrugs Based on Modified Silica and Oral Protein Delivery Using Silicones</i>	
36 University of British Columbia	Sept. 1997
<i>Modifying Biopolymers with Silanes and Silicones</i>	
35 Brockhouse Institute for Materials Science, McMaster University	Jan. 1997
<i>Hard and soft siloxanes: hydrosilsequioxane: platinum catalysts and silicone: protein copolymers</i>	
34 McMaster Undergraduate Chemistry Club	Nov. 1996
<i>Silicon in Biology</i>	
<i>Organosilanes as Protecting Groups: Different Approaches to the Stabilization of Small Molecules, Polymers, Transition Metals and Surfaces</i>	
Université Paul Sabatier, Toulouse, France (3 lectures)	June 1996
33 <i>Organosilanes in an Inorganic World and Inorganic Silicon in an Organic World</i>	
32 <i>What Happens When Silicon Meets Biology</i>	
31 <i>Stabilized Group 14 Cations</i>	
Université de Bordeaux I, France, (3 lectures)	May 1996
30 Universidad del País Vasco, San Sebastian, Spain	June 1996
29 <i>Organosilanes in an Inorganic World and Inorganic Silicon in an Organic World</i>	
28 <i>What Happens When Silicon Meets Biology</i>	
27 <i>Stabilized Group 14 Cations</i>	
26 Landbouw Universiteit Wageningen, Wageningen, Netherlands	May 1996
<i>Silicones at the Interface: Starch/Protein/Silicone Microparticles as Oral Vaccines</i>	
25 Université de Namur, Belgium	May 1996
<i>Stabilizing β-Cations and Protecting Transition Metals with Silicon</i>	
24 Rijks Universiteit Utrecht	June 1995
<i>Controlled Modification of Silica Surfaces: Polyolefin and Silicone Sterically Stabilized Silica Colloids</i>	
23 Queen's University	Sept. 1994
<i>Silicone at the Interface: What happens when it's found in unusual places</i>	
22 McMaster University	Oct. 1993
<i>Silicon Mediated Cope-type Cyclizations OR After one year in the Netherlands, what does Fokkie (fok-ya) really mean?</i>	
21 University of Western Ontario	Sept. 1993
<i>Silicon Mediated Cope-type Cyclizations</i>	
20 University of Montpellier	May 1993
<i>Silicon Bearing Electron Withdrawing Groups: Exploiting the Differences</i>	
19 University of Toulouse	May 1993
<i>Silicon Bearing Electron Withdrawing Groups: Exploiting the Differences</i>	
18 University of Bordeaux	May 1993
<i>Silicon as Mediator: Making the Drugs and Delivering Them to the Patient</i>	
17 Free University of Amsterdam	March 1993
<i>Silicon Bearing Electron Withdrawing Groups: Exploiting the Differences</i>	
16 Open University, Milton Keynes, England	March 1993
<i>A Silicon Transplant: From the β-effect to Polymers (focus on silicon extracoordination)</i>	

15	University of Sussex	March 1993
	<i>A Silicon Transplant: From the β-effect to Polymers (focus on silicon hyperconjugation)</i>	
14	University of Utrecht: <i>Silicon Bearing Electron Withdrawing Groups: Exploiting the Differences</i>	Feb. 1993
13	University of Groningen <i>Silicon Bearing Electron Withdrawing Groups: Exploiting the Differences</i>	Feb. 1993
12	University of Amsterdam <i>A Silicon Transplant: From the β-effect to Polymers (focus on synthesis)</i>	Jan. 1993
11	Technische Hochschule Darmstadt <i>A Silicon Transplant: From the β-effect to Polymers (focus on β-effect)</i>	Jan. 1993
10	Universität Kaiserslautern <i>A Silicon Transplant: From the β-effect to Polymers (focus on silicon hyperconjugation)</i>	Jan. 1993
9	ETH-Zürich (Seebach Group Meeting) <i>A Silicon Transplant: From the β-effect to Polymers</i>	Feb. 1993
	Centre of Advanced Scientific Investigation (CINVESTAV) Mexico City, (2 lectures)	March 1992
8	<i>Polymeric Materials Derived from the β-Effect</i>	
7	<i>The β-effect: Modifying the Ligands on Silicon</i>	
6	Guelph University <i>A Silicon Transplant: From the β-effect to Polymers</i>	March 1992
5	SUNY Binghampton (New York)	March 1991
4	Universiteit van Amsterdam	July 1990
3	McMaster University (Peacock Lecture Series)	Oct. 1989
2	University of Western Ontario	Oct. 1988
1	Université de Montréal	Dec. 1988

Courses Taught

2005-06		Approximate
Enrolment		
Chem 756	Silicon Chemistry	8
Chem 20A3	Organic Synthesis	380
Total enrolment is about 650 – 2 sections		
Chem 4PP3	Polymer Chemistry	22
2004-05		Approximate
Enrolment		
Killam Research Fellowship (until Jan. 2005)		
Chem 4G06	(Course coordinator)	15
Research supervisor		
1		
Chem 1AA3		350
2003-04		Approximate
Enrolment		

Killam Research Fellowship		
Chem 4G06	(Course co-coordinator)	22
Research supervisor		
2		
2002-03		Approximate
Enrolment		
Chem 760	Organic Synthesis	8
Chem 2BA3	Organic Synthesis	42
Chem 4G06	(Course coordinator)	8
(on Killam Fellowship starting Jan. 2003)		
2001-02		Approximate
Enrolment		
Chem 2L03	Organic Laboratory	42
Chem 2BA3	Organic Synthesis	42
Chem 1AA3	Introductory Chemistry (3 units)	225
2000-01		Approximate
Enrolment		
Chem 760	Organic Synthesis	8
Chem 756	Organosilicon Chemistry	6
Chem 2L03	Organic Laboratory	18
Chem 4G6	Supervisor, Undergraduate Thesis	1
Chem 2BA3	Organic Synthesis	18
Chem 1AA3	Introductory Chemistry (3 units)	275
1999-2000	On sabbatical	
Chem 4G6	Supervisor, Undergraduate Thesis	2
1998-99		
Chem 760	Organic Synthesis	4
Chem 4G6	Supervisor, Undergraduate Thesis	2.5
Chem 4D3	Organic Synthesis	16
Chem 1AA3	Introductory Chemistry (3 units)	400
1997-98		
Chem 730a	Organic Synthesis	7
Chem 4G6	Supervisor, Undergraduate Thesis	2
Chem 4D3	Organic Synthesis	7
Chem 1AA3	Introductory Chemistry (3 units)	400
1996-97		
Chem 730a	Organic Synthesis	7
Chem 4G6	Supervisor, Undergraduate Thesis	2

Chem 4D3	Organic Synthesis	19
Chem 1AA3	Introductory Chemistry (3 units)	400
1995-96		
Chem 731c	Organosilicon Chemistry	10
Chem 4G6	Supervisor, Undergraduate Thesis	3
Chem 4D3	Organic Synthesis	12
Chem 1AA3	Introductory Chemistry (3 units)	400
TSM 4A2	Theme School on New Materials (2 units, Overload), Seminar Course	25
1994-95		
Chem 730a	Organic Synthesis	12
Chem 4G6	Supervisor, Undergraduate Thesis	2
Chem 4D3	Organic Synthesis	12
Chem 1A6	Introductory Chemistry (3 units)	400
1993-94		
Chem720a, 721	Molecular Modelling - a special double module offered to a Masters of Teaching student, overload (unpaid)	1
Chem 730a	Organic Synthesis	12
Chem 731c	Organosilicon Chemistry, Overload	10
Chem 1A6	Introductory Chemistry (3 units)	400
Chem 4G6	Supervisor, Undergraduate Thesis	3
Chem 4D3	Organic Synthesis	15
1992-93 (University of Amsterdam, sabbatical leave)		
Graduate Course	Fundamentals of Organosilicon Chemistry	6
1991-92		
Chem 4G6	Supervisor, Undergraduate Thesis	2
Chem 730d	Transition Metals/Organic Synthesis	8
Chem 2D3	Organic Chemistry, Overload	125
Chem 3D3	Organic Chemistry	40
1990-91		
Chem 4G6	Supervisor, Undergraduate Thesis	2
Chem 730a	Organic Synthesis	12
Chem 2D3	Organic Chemistry, Overload	125
Chem 721	Organic Colloquium (Organizer)	20
Chem 3D3	Organic Chemistry	40
1989-90		
Chem 4G6	Supervisor, Undergraduate Thesis	2
Chem 721	Organic Colloquium (Organizer)	20

Chem 3D3	Organic Chemistry	50
Chem 731c	Organosilicon Chemistry	40
1988-89		
Chem 4G6	Supervisor, Undergraduate Thesis	2
Chem 720b	Molecular modelling	10
Chem 3D3	Organic Chemistry	40
1987-88		
Chem 4G6	Supervisor, Undergraduate Thesis	2
Chem 720a	Computers in organic chemistry	12
Chem 730a	Synthesis	12
1986-88		
Chem 206	Polymer Section	35
1986-87		
Chem 705	Computers in organic chemistry	12
Chem 4G6	Supervisor, Undergraduate Thesis	2
1985-86		
Chem 208	Polymer Section	35
Chem 705	Synthesis, 4 lectures	20
Chem 4G6	Supervisor, Undergraduate Thesis	1

Thesis Committees

External Referee

Student	Supervisor	Institution	Degree	Year
Alexandra Bartole 2005	Dr. I. Manners	University of Toronto	Ph.D.	
Jessie Zhang 2005	Dr. R. Kluger	University of Toronto	Ph.D.	
Nicola Lake 2004	Dr. J. Ralston	Ian Wark Institute, University of South Australia, Adelaide	Ph.D.	
Claire Minard-Basquin 2000	Dr. C. Chaix Dr. C. Pichot	École Normale Supérieure Lyon	Ph.D.	
Sandjeevi-Ranganathan, 1998	S. Dr. R. Whitney, Dr. W. Baker	Queen's University	Ph.D.	
Matuana-Molanda, L. 1997	Dr. J. Balatinecz	University of Toronto	Ph.D.	

Vlad, F.-I. 1997	Dr. A. Rudin	University of Waterloo	Ph.D.
Jihai Ma 1996	Dr. T. Tidwell	University of Toronto	Ph.D.
Andrea Dalacu 1994	Dr. M. F. Richardson	Brock University	M.Sc.
Umesh R. Parshotam 1993	Dr. Kim Baines	University of Western Ontario	Ph.D.
Flores Rutjes 1993	Dr. Henk Hiemstra	Universiteit van Amsterdam	Ph.D.
Lucy Lolkema 1993	Prof. Nico Speckamp Dr. Henk Hiemstra	Universiteit van Amsterdam	Ph.D.
Wim Jan Koot 1993	Prof. Nico Speckamp Dr. Henk Hiemstra	Universiteit van Amsterdam	Ph.D.
Louis Plamondon 1988	Prof. Nico Speckamp Dr. J. Wuest	Université de Montréal	Ph.D.
Peter Tai Wah Cheng 1988	Dr. S. MacLean	University of Toronto	Ph.D.

McMaster

Student	Supervisor	Degree	Year
Greg Bahun	Dr. A. Adronov	Ph.D.	
Xiangchun Yin	Dr. H. Stover	Ph.D.	
Tina Guenther	Dr. J. Valliant	Ph.D.	
Adrienne Pedrich	Dr. P. Harrison	Ph.D.	
John Kaldis	Dr. M. J. McGlinchey	Ph.D.	
Ju Zhang	Dr. R. H. Pelton	Ph.D.	
Rahime Benhabbour	Dr. A. Adronov	Ph.D.	
Sreedhar Cheekoori	Dr. J. McNulty	M.Sc.	
Ken Rilling 2005	Dr. J.M. Dickson	Ph.D.	
Travis Besanger 2005	Dr. J. Brennan	Ph.D.	
Yaling Xu 2005	Dr. R. H. Pelton	Ph.D.	
Sanela Martic 2005	Dr. M. Brook	M.Sc.	
<i>An Investigative Study Of Silicon-Based Materials as Alternative Matrices for MALDI-TOF Applications</i>			
X. Sui 2005	Dr. J. D. Brennan	M.Sc.	

Bola Sogbein	Dr. John Valliant	Ph.D.
2005		
Ilena Dumbrava	Dr. W. Leigh	M.Sc.
2005		
Amro Ragheb	Dr. M. A. Brook	Ph.D.
2005		
<i>Controlling Protein-Silicone Interactions by the Modification of Silicone Elastomers with Poly(ethylene oxide)</i>		
Paul Zelisko	Dr. M. A. Brook	Ph.D.
2004		
<i>The interaction of proteins with functionalized silicones</i>		
Masaaki Amako	Dr. M. A. Brook	Ph.D.
2004		
<i>Synergy of Polydimethylsiloxanes and Late Transition Metal Complexes</i>		
Tom Owens	Dr. W. J. Leigh	Ph.D.
2004		
Jiahong Tan	Dr. J. Brash	Ph.D.
2004		
Jacques Archambeault	Dr. J. Brash	Ph.D.
2002		
Maggie Wang	Dr. R. F. Childs	M.Sc.
2002		
Guodong Zheng	Dr. H. D. H. Stover	Ph.D.
2002		
Xiaoshong Lu	Dr. J. Warkentin	Ph.D.
2001		
Mustafa Mohamed	Dr. M. A. Brook	Ph.D.
2001		
Sonya Balduzzi	Dr. Michael Brook	Ph.D.
2001		
<i>Reactive Silyl Protecting Groups</i>		
Brandi Meeks	Dr. H. Sheardown	M.Sc.
2001		
Ahmed Alzamly	Dr. M. A. Brook	Ph.D.
withdrawn		
Frank J. LaRonde	Dr. M. A. Brook	Ph.D.
2000		
<i>C₂-symmetric ligands</i>		
Sudarshi Regismond	Dr. F. Winnik	Ph.D.
2000		
Rodica Stan	Dr. Michael Brook	Ph.D.
1999		
<i>Synthesis of Novel Silicones and Silanes for Interface Control</i>		
Vasiliki Bartzoka	Dr. Michael Brook	Ph.D.
1999		

<i>Silicone Protein Interactions</i>		
Mark Stradiotto 1999	Dr. Michael Brook	Ph.D.
	(co-supervised with with M. J. McGlinchey)	
<i>The Dynamics and Reactivity of η^1-Indenyl Complexes</i>		
Christine Braderic 1998	Dr. W.J. Leigh	Ph.D.
Karen Moffat 1998	Dr. H. Stöver	Ph.D.
Suzie Rigby 1997	Dr. M. McGlinchey	Ph.D.
Stephen Urquhart 1997	Dr. A. Hitchcock	Ph.D.
Paul Charpentier <i>Metallocene-catalyzed semi-batch and continuous polymerization of ethylene</i>	Dr. A. Hamielec	Ph.D.
1997	Dr. M. A. Brook	
Ralph Ruffolo <i>Silanes and Allylsilanes as Possible Precursors for Transition Metal Metal-stabilized Silylum Ions</i>	Dr. M. A. Brook	Ph.D.
1997	Dr. M.J. McGlinchey	
Howard Ketelson 1996	Dr. M. A. Brook	Ph.D.
	Dr. R. H. Pelton	
<i>The Colloidal Stability and Surface Chemistry of Stöber Silica</i>		
David Valentini 1996	Dr. M. A. Brook	M.Sc.
<i>Silicon-Modified Starch Composites</i>		
Courtney Henry 1994	Dr. M. A. Brook	Ph.D.
<i>Exploring the Synthetic Utility of Vinyl dichlorosilanes and Vinylarylsilanes</i>		
Graham McGibbon 1994	Dr. J. K Terlouw	Ph.D.
Tom Stefanac 1994	Dr. M. A. Brook	M.Sc.
<i>Silane Based Radical Polymerization: Functionalized Homopolymers and Copolymers</i>		
Mike Roth 1994	Dr. M. A. Brook	M.Sc.
<i>Controlled Formation of New Si-based Materials</i>		
Sengen Sun 1994	Dr. P. Harrison	Ph.D.

Kai Li 1994	Dr. H. D. H. Stöver	Ph.D.
Carol Dallaire 1992	Dr. M. A. Brook	Ph.D.
<i>Study of 1-Methylated-2-trimethylsilyl Cations: An Examination of the β-Effect for Silyl, Germyl and Stanny Groups</i>		
Andrea Osterroth 1991	Dr. M. A. Brook	M.Sc.
<i>Poly(methyl methacrylate) Sterically Stabilized by Silicone</i>		
Weifeng Yu 1991	Dr. R.H. Pelton Dr. M. A. Brook	M.Sc.
<i>The Roles of Ligands on Silicon</i>		
Thomas Sebastian 1990	Dr. M. A. Brook	M.Sc.
<i>Trichlorosilylstyrene Oligomers Defense Only</i>		
Ed Ng 2005	Dr. H. Jain, Business	Ph.D.
Young-Min Kim 2005	Dr. J. MacGregor, Chem. Eng.	Ph.D.
Damian Jankowicz (Chair) 2004	Dr. S. Becker, Psychology	Ph. D.
Michelle Vosburgh (Chair) 2004	Dr. J. Weaver, History	Ph. D.
Beata Gajewski (Chair) 2004	Dr. M. Jordana, Medical Sciences	Ph.D.
Tim Jacobs (Chair) 2003	Dr. J. Ferns, English	Ph.D.
Lina Liu 2003	Dr. H. Sheardown, Chem. Eng.	M.Sc.
Abhaya Kulkarni 2003	Dr. M. Boyle	Ph.D.
Millman, J. (Chair) 2003	Dr. D. Andrews	Ph.D.
Pauli Kavalakatt M.Sc.	Dr. H. D. H. Stöver, Chem. 2002	
Youqing Shen 2001	Dr. S. Zhu, Chem. Eng.	Ph.D.
Nekmohamed Manji Ph.D.	Dr. C. Nahmias, Med. Phys. 2001	
Linda Li M.Sc.	Dr. R. Pelton, Chem. Eng. 2001	

Iva Matkovic 2001	Dr. K. Dunbabin, History	Ph.D.
Bruce Wilson 2001	Dr. B. Baetz, Civil Eng.	Ph.D.
Brandi Meeks 2001	Dr. H. Sheardown, Chem. Eng.	M.Sc.
Leslie Ritchie 2000	English	Ph.D.
Stevens, Ronald (Chair) 2000	Dr. Weitz, Med. Sci.	Ph.D.
Downey, Jeff 2000	Dr. H. Stöver,	Ph.D.
Martin, W. 1999	Dr. A. Hrymak	M.Sc.
MacKay, Geoff (Chair) 1999	Dr. G. Wright,	Ph.D.
Arida, F. (Chair) 1998	Dr. M. Elbastawi, Mech. Eng.	Ph.D.
Marriott, Michael (Chair) Ph.D.	Dr. B. Milliken, Psychology 1998	
Wu Chen, Iris (Chair) 1998	Dr. M. Blajchman, Medical Sciences	Ph.D.
Barker, S. 1997	Dr. G. Purdy, Mat. Sci. & Eng.	Ph.D.
Wauben, I. 1997	Dr. S. Atkinson, Nutrition	Ph.D.
Marc Webster 1996	Dr. Muller, Biology	Ph.D.
Hua Guo 1995	Dr. A. Hamielec	Ph.D.
Hui Teng Er 1995	Dr. J. Warkentin	M.Sc.
Naomi Laing Ph.D.	Dr. W. Chan, Biochemistry 1994	
Darryl Scott Pickering 1992	Dr. L. P. Niles, Neurosciences	Ph.D.
Greg Sluggett 1993	Dr. W. J. Leigh	Ph.D.
Nien Nguyen 1991	Dr. W. J. Leigh	M.Sc.
William Mills 1990	Dr. B. E. McCarry	M.Sc.
J. Paul Santerre 1990	Dr. J. Brash, Chemical Engineering	Ph.D.

Charles Younger 1990	Dr. R.A. Bell	M.Sc.
William Gunn withdrawn	Dr. N.H. Werstiuk	Ph.D.
Lynn M. Cameron 1990	Dr. D.B. MacLean	M.Sc.
Michel B.M. Mangion 1990	Dr. G.P. Johari, Materials Science	Ph.D.
Richard Perrier 1989	Dr. M. J. McGlinchey	Ph.D.
J. Douglas McCallion 1986	Dr. J. Warkentin	M.Sc.

Committee and Association Activity

McMaster Committees	Position	Year
2008	Dean's Advisory Committee	Member 2005
	Science/Engineering Promotion/Tenure Committee	Member 2005-
2003	Teaching and Learning Grants Assessment Committee	Member 2005
	Intellectual Property Board	Member 1998-
2000-01	Selection Committee, Associate Dean of Science	Member 2002
	Faculty of Science Undergraduate Curriculum and Calendar	Member 1998,
1995-98	Health Sciences Admissions Committee	Member 1998
	McMaster Patent Board	Member 1996-98
1996	President's Task Force on Support of Research at McMaster	Member 1996
	Selection Committee, Dean of Science	Member 1995
1994-96	Dean's Advisory Committee on Computing	Member 1994-96
	Faculty Health Sciences Graduate Admissions/Study Committee	Member
1991	Graduate Curriculum and Policy Committee	Member 1994-7
	Salary Anomaly Adjustment Committee Faculty of Science	Member 1991
1990-92	Graduate Reviewing Committee Faculty of Science	Member 1990-92
	Hiring Committee, CIS Science Coordinator	Member 1989
1989	Ad Hoc Committee on Research and Senior	Member 1989
	Undergraduate Computing Research Needs	
1988-89	McMaster-IBM Cooperative Project	Member 1988-89
Departmental Committees		
2006	Departmental Advisory Committee	Member 2005-
	Nanomaterials Committee (CFI)	CoChair 2005
	Undergraduate Reviewing Committee	Member 2005-06
	Implementation of CHEM3L13	Member 2003

Departmental Advisory Committee	Member	2001-
2002		
Computing Facility Committee	Member	2001-
2002		
Accreditation Committee	CoChair	2001-
2002		
Undergraduate Curriculum and Calendar Committee	Chair	2000-02
Freshman Committee	Member	2000-01
Graduate Curriculum Committee	Member	2000-01
Undergraduate Curriculum and Calendar Committee	Chair	1998
Year One Frosh Week (gave lecture)		1998
Chemistry Computer Committee	Member	1998
Organic Comprehensives Coordinator	Chair	1996-98
Teaching Associates Coordinator	Chair	1996-97
Chemistry Chair Selection Committee	Member	1995
Departmental Advisory/P&T Committee	Member	1994-96
Departmental Seminars	Chair	1993-96
X-ray Facility Users Committee	Member	1993-94
Graduate Curriculum Committee	Member	1993-94
Comprehensive Exam Coordinator	Chair	1992
Facilities Committee	Member	1991-92
Departmental Advisory Committee	Member	1989-93
Departmental Computer Users Committee	Member	1991
X-ray Facility Users Committee	Member	1991-92
Selection of X-Ray Facility Manager	Member	1990-91
Graduate Recruiting	Chair	1987-90
Graduate Reviewing	Chair	1987-92
IBM Submission for Masters in Computer Chemistry	Member	1986-88
Graduate Curriculum	Member	1986-87
Undergraduate CIC Student Advisor	Chair	1986-88
Chemistry Club Faculty Advisor	Chair	1986-87
Safety Committee	Member	1985-86
Facilities Committee	Member	1985-87